

*University of Pennsylvania Libraries*

SCHOENBERG INSTITUTE FOR MANUSCRIPT STUDIES



THE LAWRENCE J. SCHOENBERG COLLECTION OF MANUSCRIPTS

Philadelphia, Pennsylvania 2013

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Cover and title page image:

Illuminated initial “P” from LJS 25, Aristotle, *Metaphysics*, *Nicomachean ethics*, and *Economics*, (Italy, 13<sup>th</sup> century).

## *Introduction*

In 1960, University of Pennsylvania Libraries Board member Lawrence J. Schoenberg (C53, WG56) saw a medieval book. It was an illuminated liturgical manuscript containing the order of service for the reception of novices into a nunnery. Made in Italy in the 16<sup>th</sup> century, the book itself was of more interest than the text. Enticed by the delicately painted initials, then intrigued by the care that someone had taken in creating them, Larry picked up the book that the artist working four hundred years earlier had so painstakingly embellished and held it in his hands. Hooked, he bought his first manuscript.

For Larry, the lure of such an immediate connection to the past has never diminished. In the half-century since that first purchase, he has built one of the great collections of pre-modern manuscripts outside the walls of an institution. Though his interest took off from the aesthetics of the hand-produced book (he later sold that first acquisition), Larry eventually turned his discerning eye and mind to the textual traditions of our shared intellectual, philosophical, and scientific heritage, a heritage to which his own work in computing technology was obviously indebted. In his words, the collection as it exists today “reflects the transformation of man’s knowledge about the world around him from simple observation to recognition, to documenting and analysis, and then to the application and interpretation of that learning.” From ancient artifacts recording the first transactions of human civilization to the writings of philosophers and scientists active in pre-modern Europe, Africa, and Asia, the Schoenberg manuscripts embody the intellectual legacy of the distant past.

What has long set Larry apart as a collector is not only the quality of his collection but also his insistence on sharing it with the world. His manuscripts have always been available to scholars and students at Penn and around the world for study and research. Not content simply to open his library to visitors, Larry founded the Schoenberg Center of Electronic Text and Image (SCETI) in 1996 with the intention of making his collection, as well as other rare book and manuscript collections at the University of Pennsylvania, more readily available through digitization. Furthering his vision of enabling access to manuscripts, he created the Schoenberg Database of Manuscripts. Freely available, this online database assists people seeking to track the historic movement and current locations of pre-1600 manuscript books. Managed by Penn Libraries since 2007, the Schoenberg Database, which grows daily, is already the largest repository of manuscript data in the world.

When, in 2011, Larry and his wife Barbara Brizdle Schoenberg donated their collection to the Penn Libraries, they fundamentally changed the face of manuscript studies at Penn. With their gift, and building upon existing Schoenberg and library resources at the University, Penn Libraries established the Schoenberg Institute for Manuscript Studies to promote the interdisciplinary study of the manuscript book using both traditional and digital research methods. The Institute, the inauguration of which the exhibition *A Legacy Inscribed: The Schoenberg Collection of Manuscripts* celebrates, will enable scholars and students at Penn and around the world to forge their own intimate relationships with the intellectual and physical legacies of the past. This is the legacy of Larry Schoenberg.

—Lynn Ransom

Curator, *A Legacy Inscribed: The Schoenberg Collection of Manuscripts*

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AD BEATISSIMVM SANCTISSIMVM Q; DOMI-  
 NVM NOSTRVM D. C. PP. III. MEL MICHA-  
 ELIS ZOPHELIO SACILENSIS LITTERARVM SI-  
 MVLATIONIS LIBER INCIPIT.

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 tissime. p. hac rudita-  
 te mea quicq; dignu  
 sublimitati tue perspi-  
 gere posse. nihilomin  
 quo sum operam aggr-  
 sus modernoz priscoz  
 q; principum omnib; peroptatam  
 uehementius ac clarissimis uiris mag-  
 ni studio labore q; uastissimo indaga-  
 tam et nemini unq; repertam. utile  
 ne dum sententia mea at quum cui-  
 tatum leoz q; tum et mortalium s-  
 uatione complurium necessariam ad  
 modum et diutius absine laboratam  
 perfecti eo inscie male. S. ue pruden-  
 tia. q; taciturnitatis conuictio insinu-  
 lari. Proinde animaduertens sepeni-  
 mero Syphrarum gratia quib; seculo





## The Lawrence J. Schoenberg Collection of Manuscripts Handlist

This handlist provides quick reference to all of the manuscripts in the Schoenberg Collection. Each item is listed with its LJS number. Items marked with an \* appear in the exhibition *A Legacy Inscribed: The Schoenberg Collection of Manuscripts*. Digital facsimiles and full descriptions of the manuscripts are available online at *Penn in Hand: The Lawrence J. Schoenberg Collection* (<http://sceti.library.upenn.edu/schoenberg>).

LJS 16 & LJS 124 \*

Vincent of Beauvais (d. 1264)

*Speculum historiale* (*Mirror of history*), Books 25-28

Manuscript on parchment in Latin

Paris, France, ca. 1400

(LJS 16: 176 fols., 370 x 255 mm; LJS 124: 1 fol., 368 x 262 mm)

LJS 19

Carlos I (King of Spain 1516-56, Holy Roman Emperor as Charles V 1519-56)

*Carta executoria de hidalguia* (*Grant of nobility*), in favor of Juan Garcia y la Puente de Mora

Manuscript on parchment in Spanish

Granada, Spain, 16 June 1542

(38 fols., 350 x 210 mm)

LJS 20 \*

Philip II (King of Spain, 1556-98)

*Carta executoria de hidalguia (Grant of nobility)*, in favor of Juan Gayton de Cuenca

Manuscript on parchment in Spanish

Granada, Spain, 12 September 1578

(67 fols., 321 x 226 mm)

LJS 21

Philip III (King of Spain, 1598-1621)

*Carta executoria de hidalguia (Grant of nobility)*, in favor of Juan de Mena Gutierrez

Manuscript on parchment in Spanish

Granada, 14 April 1606

(52 fols., 316 x 212 mm)

LJS 22

*Trattato di varie cose attenenti a guerra, mosini, aque, pesi, mechaniche fortetze, et altro* (Treatise on machinery, addressing machines for attacking fortified cities, the use of waterwheels in mills and manufacturing, and the construction of defensive fortifications, followed by an alphabetical index)

Manuscript on paper in Italian

Italy, 1687

(99 fols., 311 x 225 mm)

LJS 23

Thomas de Cantimpré (ca. 1200-ca. 1270)

*De natura rerum (On the nature of things)*, Books 7-20

Manuscript on parchment in Latin

Northern France or Flanders, ca. 1250-70

(56 fols., 185 x 134 mm)



LJS 24 \*

Medical miscellany, including: Johannitius (Ḥunayn ibn Isḥāq al-ʿIbādī; 809?-873), *Introductio ad artem parvam Galeni* (*Introduction to Galen's Art of medicine*); Philaretus, *Liber de pulsibus* (*Book on the pulses*); Gilles of Corbeil (fl. 1200), *De pulsu* (*On the pulse*); Isaac Israeli (ca. 832-ca.932), *De dietis universalibus* (*On universal diets*), *De dietis particulares* (*On particular diets*), *Liber febrium* (*Book of fevers*), *Liber elementorum* (*Book of the elements*), and *Liber urinarum* (*Book of urines*)

Manuscript on parchment in Latin

Paris, France, ca. 1250

(149 fols., 290 x 193 mm)

LJS 25 \*

Aristotle (384-322 BCE)

*Metaphysics*, *Nicomachean ethics*, and *Economics*, translated from Greek into Latin by William of Moerbeke (ca. 1230-1286)

Manuscript on parchment in Latin

Italy, 13<sup>th</sup> century

(80 fols., 307 x 218 mm)

LJS 26

Johannes de Sacrobosco (ca. 1195 – ca. 1256)

*Algorismus* (*Mathematical reckoning*), and *Tractatus de sphaera* (*On the sphere of the world*)

Manuscript on parchment in Latin

Italy, mid-13<sup>th</sup> century

(31 fols., 180 x 134 mm)

LJS 27 \* (see page 4)

Pietro Paolo Muscarello

*Algorismus* (*Mathematical reckoning*)

Manuscript on parchment in Italian

Nola, Italy, 1478

(115 fols., 211 x 154 mm)



LJS 28 \*

Battista Agnese

*Portolan atlas*

Manuscript on parchment in Italian

Venice, Italy, ca. 1535-38

(7 double-page maps, 398 x 285 mm)

LJS 29 \*

Ferrante I (Ferdinand I) of Aragon (King of Naples 1458-94)

*Extratto da un libro de razza da cavalli del re Ferrante vecchio de Aragona*  
(Extracts from the king's book on the care and breeding of horses)

Manuscript on parchment in Italian

Italy, 1541

(47 fols., 228 x 155 mm)

LJS 31

*Credo*, from an Antiphonary

Manuscript on parchment in Latin

Italy, 15<sup>th</sup> century

(1 fol., 547 x 387 mm)

LJS 33

Chess scene by "The Spanish Forger"

Painted on medieval parchment

France, ca. 1900

(1 fol., 187 x 134 mm)

LJS 35

Gregory IX

*Decretales (Decretals)*, fragment

Manuscript on parchment in Latin

Germany, between 1240-60

(2 fols., 306 x 219 mm)

LJS 36

Chronicle, describing the Jewish Wars

Manuscript on parchment in Latin

Italy, 12<sup>th</sup> century

(1 fol., 397 x 260 mm)

LJS 37 \* & 460

Euclid

*Al-Ikhtiṣār min al-maqālāt min kitāb Uqlīdus (Epitome of Euclid's Elements)*

Manuscript on burnished paper in Arabic

Near East, 502 AH/ 1108-9 CE

(LJS 37: 92 fols., 188 x 95mm; LJS 460: 80 fols, 188 x 100 mm)

LJS 38

Collection of prayers

Manuscript on glazed European paper in Arabic, with Turkish commentary

Turkey, Safar, 889 AH/March 1484 CE

(221 fols., 140 x 112 mm)

LJS 39

Muḥammad ibn Sulaymān Jazūlī (d. 1465)

*Dalā'il al-khayrāt (Signs of good things)*

Manuscript on burnished paper in Arabic

Levant, 17<sup>th</sup>/ 18<sup>th</sup> century

(92 fols., 160 x 105 mm)

LJS 40

Collection of prayers and charms

Manuscript on burnished paper in Arabic

Egypt, 18<sup>th</sup> century

(150 fols., 173 x 116 mm)

LJS 41

*Megillat Esther (Book of Esther)*

Manuscript on parchment in Hebrew

Italy, 15<sup>th</sup> century

(16 fols., 87 x 65 mm)

LJS 42

Moses ben Baruch Almosnino (ca. 1515-ca. 1580)

Commentary on *Beit elohim ve-sha'ar ha-shamayim (House of God, or gate of heaven)*

Manuscript on burnished paper in Hebrew

Salonika, Greece, 1551

(169 fols., 268 x 187 mm)

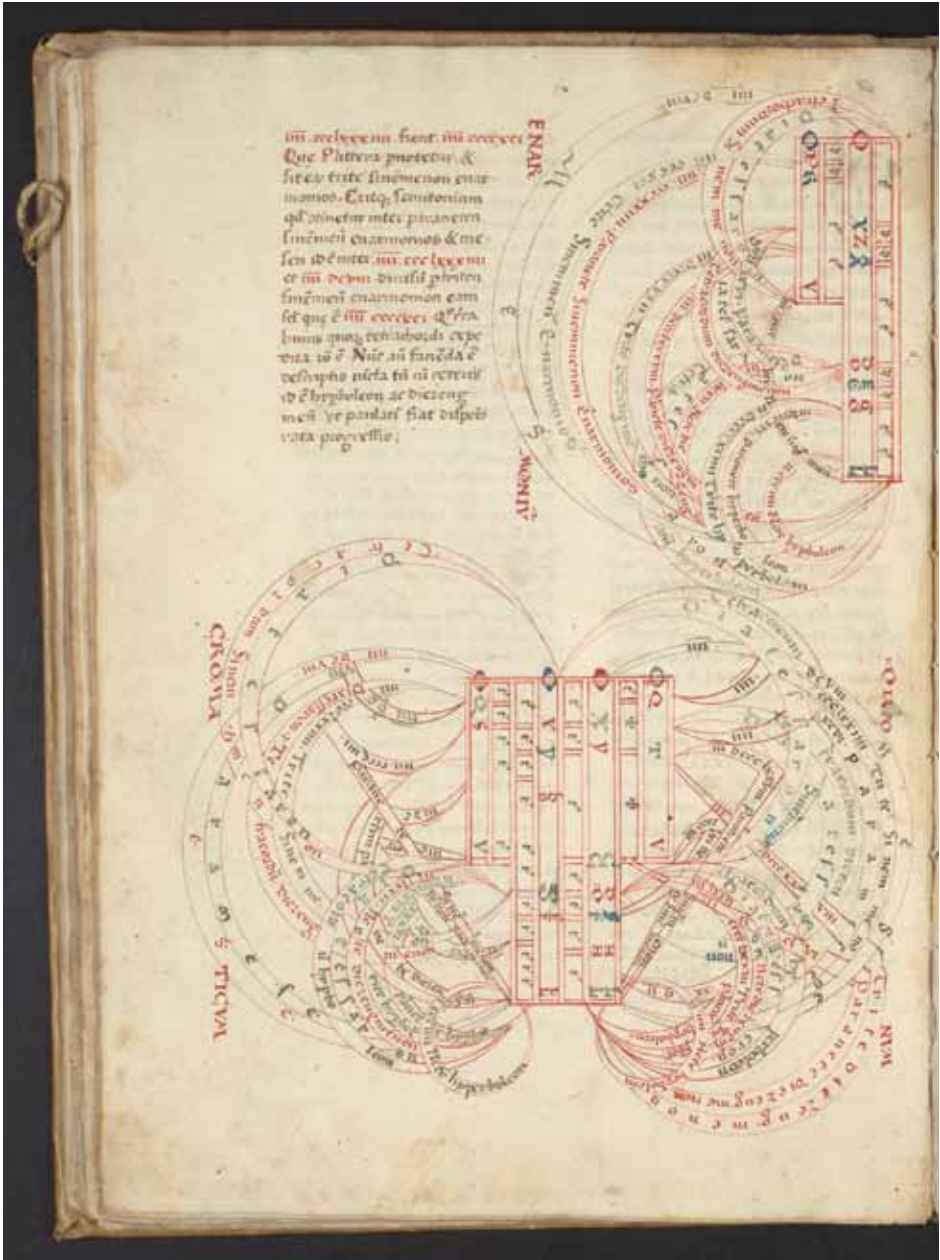
LJS 43  
Shah Qāsim  
Poems and other works  
Manuscript on glazed paper in Persian  
Persia, ca. 1575-99  
(258 fols., 212 x 116 mm)

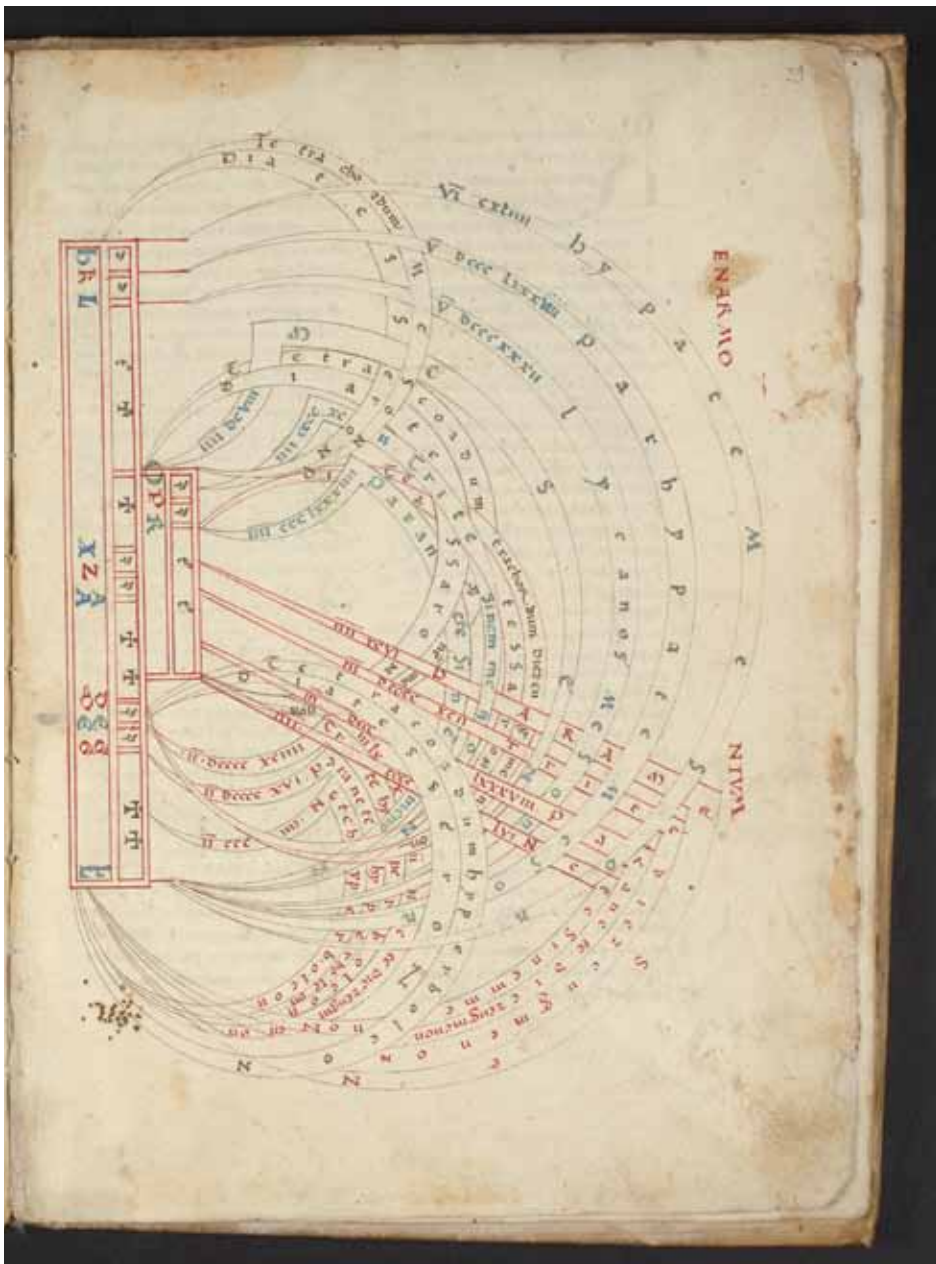
LJS 44  
*Ghazals (Love Poems)*  
Manuscript on glazed paper in Persian  
India, before 1756  
(351 fols., 208 x 130 mm)

LJS 45  
*Book of the dead*, fragments  
Manuscript on papyrus in hieratic script  
Egypt, between 300 and 150 BCE  
(9 fols., from 142 x 80 to 59 x 65 mm)

LJS 46 \*  
*Herbal*  
Northern Italy, ca. 1520  
[with]  
*Description of the flora, topography, and customs of the kingdom of Morocco*  
Manuscript on paper in Italian, English, Spanish, and Latin  
England, ca. 1600  
(101 fols., 305 x 205 mm)

LJS 47 \* (*see pages 8-9*)  
Boethius (ca. 480–524 or 525 CE)  
*De institutione musica (On the arrangement of music)*  
Manuscript on paper in Latin  
France, ca. 1490  
(52 fols., 281 x 204 mm)





LJS 48 \*

Giovanni Faella Ruffo (compiler)

*Instrumenta feudorum castri sonae* (Decrees and grants relating to Giovanni Faella of Verona)

Manuscript on parchment in Latin

Verona, Italy, 1504

(26 fols., 305 x 187 mm)

LJS 49 \*

Manṣūr ibn Muḥammad ibn Aḥmad ibn Yūsuf ibn Ilyās (d. after 1422)

*Rawḍat al-adhhān fī maʿrifat tashrīḥ badan al-insān* (*Garden of mentality on the knowledge of human anatomy*)

Manuscript on oriental paper in Persian and Arabic

Persia, 1411

(32 fols., 245 x 174 mm)

LJS 51 \*

Alphabets and encoded letters

Manuscript on paper in Arabic

Possibly Syria, 15<sup>th</sup> century

(106 fols., 178 x 133 mm)

LJS 54 \*

Magister Contarini

Notarial formulary

Manuscript on parchment in Latin

Padua, Italy, ca. 1230

(40 fols., 154 x 110 mm)

LJS 55 \*

Gauthier de Metz (fl. 13<sup>th</sup> century)

*Image du monde* (*Mirror of the world*)

Manuscript on parchment in Latin and French

France, (Lorraine?), 14<sup>th</sup> century

(52 fols., 332 x 220 mm)



LJS 56

Paulo Veneto (ca. 1370-1428)

*Logica parva* (Small book of logic)

Manuscript on parchment and paper in Latin

Probably northern Italy, 1420 and earlier

(48 fols., 212 x 145 mm)

LJS 57 \*

Astronomical anthology, including: Jacob ben David ben Yom Tov, [Treatise on the calendar]; Abraham ibn Ezra (1089-1164), *Reshit hokhmah* (Beginning of wisdom), *Mishpetei ha-mazalot* (Book of judgments of the zodiacal signs), *Sefer ha-'olam* (Book of the world), and the *Sefer ha-mivharim* (Book of elections); and a Hebrew translation of Ptolemy's *Almagest*

Manuscript on parchment in Hebrew

Catalonia, Spain, ca. 1361-2

(114 fols., 275 x 204 mm)

LJS 59

*Ducale*, concerning the duties, rights, and obligations of Paolo Nani, Podestà and Capitaneus of Treviso, with a dedication miniature in the style of Benedetto Bordone

Manuscript on parchment in Latin and Italian

Venice, Italy, 25 May 1517

(34 fols., 240 x 164 mm)

LJS 60

Pomponius Mela

*De cosmographie* (On cosmography)

Manuscript on parchment in Latin

Possibly northern Italy, late 14<sup>th</sup>- early 15<sup>th</sup> century

(72 fols., 170 x 115 mm)

LJS 61 \*

Writs from the end of the reign of Richard II and the beginning of the reign of Henry IV

Manuscript on parchment in Latin and French

London, England, 1407

(231 fols., 260 x 173 mm)





آرد و پس از آن که در کوزه  
 کوزه سوره و ساکن در کوزه  
 آرد و پس از آن که در کوزه  
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آرد و پس از آن که در کوزه  
 کوزه سوره و ساکن در کوزه

LJS 62

*Herbal* (in the tradition of Dioscorides Pedanius, Isocrates, and Galen)  
Manuscript on paper in Greek  
Eastern Mediterranean, 15<sup>th</sup> century  
(119 fols., 261 x 190 mm)

LJS 63 \* (*see pages 12-13*)

Khushhāl Khān Kalāvānt  
*Rāg darshan* (*Glimpse of rāga*), with *Rāgamālā* paintings  
Manuscript on parchment in Dahkinī  
Deccan, India, 1214 AH/1799 CE  
(40 fols., 360 x 250 mm)

LJS 64 \*

Georg von Peurbach (1423-1461)  
*Illustrations to the Novae theoricæ planetarum* (*New theory of the planets*)  
Manuscript on paper in Latin  
Northern Italy, mid-16<sup>th</sup> century  
(39 fols., 288 x 214 mm)

LJS 97

Porphyry (ca. 234-ca. 305)  
*Eis ta harmonika Ptolemaiou Hypomnema* (*Commentary on Ptolemy's "Harmonics"*)  
Manuscript on paper in Greek  
Spain or Italy, ca. 1560-80  
(242 fols., 290 x 200 mm)

LJS 99

Mathematical tablet  
Written on a partially baked clay tablet in Sumerian cuneiform  
Southern Mesopotamia, ca. 2000-1800 BCE  
(65 x 51 mm)

LJS 100 \* (*right*)

Debt record  
Manuscript on a baked clay tablet in cuneiform  
Babylon, month of Ayyaru, day 21, year 27 of the reign of Darius I (ca. 494 BCE)  
(61 x 48 mm)

LJS 100



LJS 101 \* (see pages 18-19)

Aristotle (384-322 BCE)

*Peri hermēnias*, translated into Latin by Boethius as *De interpretatione*  
(*On interpretation*)

Manuscript on parchment in Latin with some Greek

North Central France (perhaps Saint-Benoît-sur-Loire), 9<sup>th</sup> and 11<sup>th</sup>  
centuries

(64 fols., 205 x 180 mm)

LJS 102

*Zena naqaromu* (*History of the Trinity*), with hymns and salams to the  
Trinity

Manuscript on parchment in Ge'ez

Ethiopia, early 20<sup>th</sup> century

(100 fols., 140 x 115 mm)

LJS 103

Icilio Federico Joni (artist)

Book covers in the Biccerna style of 15<sup>th</sup>-century Siena

Two decorated wooden panels, with leather spine: upper cover with large  
central painted panel depicting the parable of the “tillers of the soil;”  
lower cover painted with 5 coats-of-arms within an illuminated border  
Siena, Italy, late 19<sup>th</sup> century

(310 x 195 mm)

LJS 110

John Elys

Deed of indenture (sale of a life estate) by John Elys and his son John to  
John de Beeleye and his wife Margery

Manuscript on parchment in Latin

Toneworth, Warwickshire, England, January 1358

(1 fol., 170 x 245 mm)

LJS 115

Raymond of Peñafort (1175?-1275)

*Summa de poenitentia et matrimonio* (*Compendium on penance and matrimony*), fragment

Manuscript on parchment in Latin

Southern France, ca. 1250

(1 fol., 178 x 125 mm)

LJS 119

Fragment, used in a binding, of a canon law manuscript, containing papal decretals of Lucius III, Alexander III, and Urbanus III

Manuscript on parchment in Latin

France, 14<sup>th</sup> century

(1 fol., 210 x 116 mm)

LJS 124 (see LJS 16)

LJS 163

August H. Bode

*Allgemeine maschinenlehre nach den vorfragen des herrn Professor Dr. Ruhlmann*

Manuscript on paper in German

Germany, 1864

(191 fols., 254 x 182 mm)

LJS 164

McCormick family

Arithmetic copy books

Manuscript on paper in English

Georges Township, Fayette County, PA, ca. 1820

(213 fols., 337 x 210 mm)

LJS 165

Recipes for food, drink, and medicine

Manuscript on paper in English

England, ca. 1690-1802

(90 fols., 311 x 210 mm)









LJS 166

Correspondence between London bookseller Alan G. Thomas and his colleagues, including A. N. L. Munby and Lionel and Philip Robinson, with related ephemera

Typescript and manuscript on paper in English

England (mostly London), 1953-83

(53 items, various formats, ranging from small note-cards to full-size letters, all unbound)

LJS 167

Address presented to the Hon. Albert D. Shaw, United States Consul, Manchester, from residents in Sale, Ashton-on-Mersey, and District

Manuscript on parchment in English

Manchester, England, 30 June 1885

(8 fols., 256 x 210 mm)

LJS 168

*Theseus Christianus Peregrinatur cum Phirithoo per aliquot Europae regiones itinerario* (*Theseus, Christian pilgrim, with Phirithous, traveling through several regions of Europe*)

Manuscript on paper in Latin

Italy or Switzerland, ca. 1694

(169 fols., 200 x 163 mm)

LJS 170

Joseph Black, M.D.

Lectures on chemistry (Vol. 5 only, Lectures 61-76)

Manuscript on paper in English

Possibly Scotland, ca. 1780

(259 fols., with blank versos, 192 x 121 mm)

LJS 171

*Tractatus simplex de cortice peruviano* (*Simple treatise on Peruvian bark*), with a commentary on Descartes' *Physica*, and other medical texts

Manuscript on parchment in Latin

Possibly Italy, after 1696

(212 fols., 183 x 127 mm)

LJS 172

Joannes Regiomontanus (1436-1476)

*Tabulae directionum et profectionum* (Tables of declinations and ascensions)  
and *Tabella sinus recti* (Table of sines)

Manuscript on paper in Latin

Hungary, ca. 1470

(95 fols., 220 x 152 mm)

LJS 173 \*

*Enchiridion mathematicum* (Mathematical handbook) and *Prohemium astrologiae* (Introduction to astrology)

Manuscript on paper in Latin

Wittenberg, Germany, 1629-32

(168 fols., 219 x 178 mm)

LJS 174

Alfonso X (King of Castille, 1221-84)

*Alfonsine Tables*

Manuscript on paper in Latin

Prague, Czech Republic, 1401-04

(142 fols., 295 x 236 mm)

LJS 175

Donato Rosetti (1633-1688?)

*Figure de' sistemi del mondo d'Aristotile, Copernico, e Ticone* (Diagrams of the systems of the world of Aristotle, Copernicus, and Tycho)

Manuscript on paper in Latin

Italy, ca. 1680

(24 fols., 298 x 205 mm)

LJS 176

*Traité de mécanique* (Treatise on mechanics)

Manuscript on paper in French

France, ca. 1700

(58 fols. and 27 fold-out drawings, 262 x 185 mm)

LJS 177

Documents pertaining to the history and condition of the Pontine Marsh and the Maestri delle Strade, the municipal body in charge of the streets of Rome

Manuscript and printed booklets on paper in Italian and Latin  
Italy, mostly Rome, 16<sup>th</sup>- 18<sup>th</sup> centuries  
(600 fols., 292 x 215 mm)

LJS 178

Report on efforts to repair the *Acqua Felice* aqueduct

Manuscript on paper in Italian

Rome, Italy, ca. 1683

(20 fols., 268 x 197 mm)

LJS 179

Titus Lucretius Carus

*De rerum natura* (*On the nature of things*), Book 6, translated into Italian by Alessandro Marchetti as *Della natura delle cose Libri VI*

Manuscript on paper in Italian

Italy, 9 January 1746

(147 fols., 162 x 110 mm)

LJS 180

Letters on engineering and industrial history

Manuscript on paper in French and English

France and England, 1727-1836

(25 mss.: 112 fols., varying dimensions, mostly quarto)

LJS 181

Textbook notes on geometry (plane and spherical)

Manuscript on paper in French

France, after 1789

(12 fols., 210 x 125 mm)

LJS 182

Giovanni Domenico Cassini (1625-1712)

*Les observations de l'équinoxe du printemps de cette année 1703, comparées avec les plus anciennes (Observations on the equinox in the spring of 1703, compared with earlier ones)*

Manuscript on paper in French

Paris, France, March 21-May 1703

(10 fols., 256 x 190 mm)

LJS 183 \*

Student's notebook on arithmetic and algebra

Manuscript on paper in English and Latin

England, possibly Cambridge, ca. 1675-85

(141 fols., ca. 149 x 99 mm)

LJS 184 \*

Isidore of Seville (d. 636)

*Etymologiae (Etymologies)*

Manuscript on parchment in Latin

Southern France or Catalonia, late 13<sup>th</sup> century

(184 fols., 356 x 242 mm)

LJS 185

*Psalter and Gospel of Matthew (25.14-24)*

Manuscript on paper in Coptic

Egypt (said to be from the Abbey of St. Anthony on the Red Sea, N.E.

Egypt), 18<sup>th</sup>/ 19<sup>th</sup> century

(5 fols., 210 x 157 mm)

LJS 186 \*

Adam Kochánski (pseudonym Adamus Adamandus, 1631-1700)

*Disquisitiones physicomathematicae (Physico-mathematical discourses)*

Manuscript on paper in Latin

Florence, Italy, 1668

(89 fols., 213 x 156 mm)

LJS 187

Pierre Louis Georges du Buat (1734-1809)

*Thermomètre absolu (Absolute thermometer)*

Manuscript on paper in French

Condé, France, 1801

(12 fols., 322 x 202 mm)

LJS 188

*Ynstruction of the Ephimeredes*

Manuscript on paper in English

England, ca. 1540

(20 fols., 190 x 140 mm)

LJS 189

Zayn al-Dīi al-Jurjānī

*Dhakhīra-yi Khwārazmshāhī (Thesaurus of the Shah of Khwarazm)*

Manuscript on pink paper in Persian

Persia, 14<sup>th</sup> century

(352 fols., 395 x 317 mm)

LJS 190

*Lectures on physics, statics, and mechanics*

Manuscript on paper in Latin

France, possibly Paris, ca. 1770

(163 fols., 263 x 191 mm)

LJS 191

Treatise on astronomy, astrology, and weather prediction, with tables giving the positions of the heavenly bodies

Manuscript on paper in English

England, ca. 1496

(19 fols., 199 x 140 mm)

LJS 192

John Boswell Whitehead (1872-1954) and Lars Olai Grondahl (b. 1880)

“Submarine detection in an alternating magnetic field”

Typescript codex on paper, signed by the authors in English

Possibly Pittsburgh, PA, 1919

(94 fols., 280 x 224 mm)

LJS 194

Gerbert of Aurillac (Pope Sylvester II, ca. 945-1003)

*Isagoge geometriae (Introduction to geometry)*

Manuscript on parchment in Latin

Northern Austria, mid-12<sup>th</sup> century

(56 fols., 155 x 106 mm)

LJS 195

Medical miscellany

Manuscript on paper in German with some Latin

Germany, ca. 1450-1500

(326 fols., 155 x 116 mm)

LJS 196

Leaves from two illuminated Persian manuscripts, with miniatures

Manuscript on paper

Persia, 17<sup>th</sup>-18<sup>th</sup> century

(2 loose fols. from different manuscripts: Fol. 1, 220 x 125 mm; Fol. 2, 162 x 132 mm)

LJS 197

Funeral chant pictographs

Manuscript on paper in Naxi

China, between 1885 and 1915

(11 fols., 91 x 286 mm)

LJS 198 \*

Arnaldus de Villanova (d. 1311)

*De simplicibus (On simples)*

Manuscript on parchment in Latin

Spain, ca. 1350-80

(21 fols., 178 x 130 mm)

LJS 199

Sir Isaac Newton (1642-1727)

*Artis analyticae specimina sive geometrica analytica* (Art of analytical models or analytical geometry), also known as *Methodus fluxionum* (Method of fluxions)

Manuscript on paper in Latin

Cambridge, England, ca. 1710

(72 fols., 310 x 200 mm)

LJS 200

Giovanni Alfonso Borelli (1608-1679)

Collection of 26 signed letters to Dionigi Guerrini, Quartermaster-General of Ferdinand I de' Medici, Grand Duke of Tuscany

Manuscript on paper in Italian

Livorno and Naples, Italy, 17 November 1664-21 June 1667

(47 fols., 280 x 200 mm)

LJS 201

Evangelista Torricelli (1608-1647)

Signed autograph letter to Marin Mersenne

Manuscript on paper in Italian

Florence, Italy, 9 January 1645

(1 fol., 275 x 201 mm)

LJS 202

Placido Titi (1603-1668)

*Primum mobile*, with theses added to the theory and canons to the practice

Manuscript on paper in English

England, late 17<sup>th</sup>-18<sup>th</sup> century

(83 fols., 379 x 250 mm)

LJS 203

Porphyry

*Isagoge* (Introduction to Aristotle), with commentaries of a "Christophorus de Labbaetrie"

Manuscript on paper in Latin

Possibly France, 1666

(229 fols., 205 x 172 mm)



LJS 204

Immanuel ben Jacob Bonfils (14th century)

*Shesh kanafayim* (Six wings, a mathematical treatise)

Manuscript on parchment in Hebrew

Italy, 3 Av [20 July] 1509

(27 fols., 174 x 126 mm)

LJS 205

Cajetanus Marcucciis

*Philosophica disceptatio qua munda Copernici systema* (Philosophical discussion of the world system of Copernicus)

Manuscript on paper in Latin

Recanati, Italy, ca. 1810

(46 fols., 267 x 197 mm)

LJS 206

Karl Theodor Wilhelm Weierstrass

Lectures on the theory of analytical functions (notes by A. L. Daniels)

Manuscript on paper in German

Berlin, Germany, 1879-81

(328 pp., 252 x 209 mm)

LJS 207

Karl Theodor Wilhelm Weierstrass

Lectures on the calculus of variations (notes by A. L. Daniels)

Manuscript on paper in German and Latin

Berlin, Germany, 1879-81

(405 pp., 269 x 225 mm)

LJS 208 & 209

Giovanni Baptista Nigroni

Two-volume thesis: *Opusculum mathematicum* (Small treatise on mathematics; LJS 208) and *In libros magnorum moralium questiones selecte* (Selected questions regarding books on great moral matters; LJS 209)

Manuscript on paper in Latin

Italy, possibly Genoa, 1675

(LJS 208: 94 pp. (65 are blank); LJS 209: 76 pp., 209 x 158 mm)

LJS 210

Paulo Naracci

Medical student's notes

Manuscript on paper in Italian

Northeast Italy, 1738

(269 fols., 197 x 140 mm)

LJS 211 \*

Richard Bigod, 4<sup>th</sup> Earl of Norfolk

Charter granting land

Manuscript on parchment in Latin

Suffolk, England, ca. 1201-05

(1 fol., 111 x 167 mm)

LJS 212 \*

Account of maintenance expenses of fulling mills

Manuscript on parchment in French

Poligny, France, 1380

(1 fol., 430 x 300 mm)

LJS 213

Joseph Nicolas Nicollet (1786-1843)

*Traité élémentaire et synthétique des sections coniques (Elementary and synthetic treatise on conical sections)*

Manuscript on paper in French

Chambéry, France, 1809

(63 fols., 281 x 206 mm)

LJS 214

Anton Ruprecht (1748-1814)

*Theoretisch-praktische chemie (Theoretical-practical chemistry)*

Manuscript on paper in German

Hungary, 1784

(324 fols., 257 x 205 mm)

LJS 215  
Imbert Fentryer (compiler)  
Scientific miscellany  
Manuscript on paper in French and Latin  
France, 1511  
(283 fols., 105 x 76 mm)

LJS 216 \*  
Johannes de Sacrobosco (ca. 1195 – ca. 1256)  
*Tractatus de sphaera* (On the sphere of the world), *Algorismus* (Mathematical reckoning), and *Computus lunaris* (On the calendar)  
Manuscript on parchment in Latin  
France, possibly Paris, ca. 1256-70  
(58 fols., 171 x 120 mm)

LJS 217  
G. M. Raymond  
*Rapport sur les poids et mesures, fait à la Société Royale Académique de Savoie, dans sa séance du 22 décembre 1828, par une commission nommée à cette fin* (Report on weights and measures, made at the Royal Academic Society of Savoy, at its meeting on 22 December 1828, by a commission nominated at its conclusion)  
Manuscript on paper in French  
Savoy, France, 22 December 1828  
(14 fols., 286 x 196 mm)

LJS 218  
Jules Henri Poincaré (1854-1912; lecturer) and E. Pomey (student)  
Student's mathematics lecture notes and assignments with corrections  
Manuscript on paper in French  
Sorbonne, Paris, France, ca. 1881-83  
(4 notebooks, 13 assignments, and 3 letters; ca. 450 pp., varying dimensions)

LJS 219  
*Instruction pour les officiers de l'artillerie* (Instruction for artillery officers)  
Manuscript on paper in French  
France, after 1720  
(422 fols., 282 x 210 mm)

LJS 220

*Recueil de diverses recettes médicales (Collection of medical recipes)*

Manuscript on paper in French with some Latin

Eastern France, ca. 1475-90

(147 fols., 206 x 145 mm)

LJS 221

Baron Augustin Louis Cauchy (1789-1857)

*Mémoire sur les rapports qui existent entre le calcul des résidus et le calcul des limites (Report on the relationships between the calculus of residues and the calculus of limits)*

Manuscript on paper in French

Turin, Italy, 27 November 1831

(80 pp., 214 x 176 mm)

LJS 222

Sir Proby Cautley

*The Ganges Canal (Report on Construction)*

Manuscript on paper in English

India, 1854

(3 vols., 2044 fols., 345 x 230 mm)

LJS 223

Aristotle (384-322 BCE)

*Quaestiones logicales (Logical questions)*, and other philosophical texts including texts ascribed to Anthony Carpenter

Manuscript on paper in Latin

Bavaria, Germany, ca. 1510

(205 fols., 270 x 200 mm)

LJS 224

Paolo Veneto (ca. 1370-1428)

*Expositio in libros posteriores Aristotelis (Commentary of the Posterior analytics of Aristotle)*

Manuscript on paper in Latin

Italy (possibly Verona), mid-15<sup>th</sup> century

(152 fols., 286 x 217 mm)

LJS 225 \* (page v)

Michele Zopello

*Liber litterarum simulationis et de ziefri* (Book of code-making and cyphers)

Illuminated by Gioacchino di Giovanni de Gigantibus

Manuscript on parchment in Latin and Italian

Rome, Italy, 1455-58

(20 fols., 223 x 150 mm)

LJS 226

Astronomical diagrams

Manuscript on parchment in Latin and English

England and Spain, ca. 1410

(7 fols., 170 x 130 mm)

LJS 228 \*

Writing tablet for learning mathematics

Manuscript on wood in Coptic

Egypt, probably Fayyūm, 6<sup>th</sup>- 7<sup>th</sup> century

(single sheet of prepared wood, 92 x 390 mm, ca. 4-5 mm thick)

LJS 229

Abu'l-Walīd Muḥammad ibn Rushd (Averroës) (1126-1198)

Commentaries on Aristotle, including *Sefer ha-ma'amarot* (*The book of sayings*) and *Sefer ha-meliza* (*Book of praise*), and on Porphry's *Isagoge* (*Introduction to Aristotle*)

Manuscript on paper in Hebrew

Provence or Spain, ca. 1450-1500

(118 fols., 205 x 143 mm)

LJS 231

Statutes regulating taxation of commerce in Barga

Manuscript on paper in Latin

Barga, Tuscany, Italy, 26 February 1346

(28 fols., 298 x 200 mm)

LJS 232

Benedetto Varchi (1503-1565)

*Trattato delle proportioni et proportionalita* (*Treatise on proportion and proportionality* [for the *rithmomachia*])

Manuscript on paper in Italian and Latin

Italy, mid-16<sup>th</sup> century

(60 fols., 220 x 166 mm)

LJS 234

Albertus Magnus (1193?-1280)

*Physica* (*Physics*)

Manuscript on parchment in Latin

Northern France (Flanders), 14<sup>th</sup> century

(95 fols., 323 x 230 mm)

LJS 235 \*

'Abd al-Mu'min ibn Yūsuf al-Urmawī (ca. 1216-1294)

*Kitāb al-adwār fī al-mūsīqā* (*Book of cycles in music*)

Manuscript on glazed paper in Arabic

Ottoman empire, 16<sup>th</sup> century

(24 pp., 235 x 165 mm)

LJS 236

Medical and pharmacological miscellany, including Arnaldus de Villanova's (d. 1311) *Thesaurus pauperum* (*Pauper's treasury*)

Manuscript on paper in Latin and Italian

Northern Italy, ca. 1450-1500

(233 fols., 147 x 108 mm)

LJS 238 \* (*right*)

Regulations for bread-making

Manuscript on parchment scroll (flattened) in English

Winchester, England, 16<sup>th</sup> century

(437 x 338 mm)



LJS 239 \*

Veit Forster (presumed author)

Pattern-book of bits, bridles, and straps for horses and mules

Manuscript on paper in German

Upper Saxony, Germany, ca. 1560

(174 fols., 505 x 350 mm)

LJS 242 \*

Guillaume Tardif (b. 1440)

*Basis grammaticae* (*Foundation of grammar*)

Manuscript on parchment in Latin

Paris, France, 1 January 1470

(20 fols., 198 x 143 mm)

LJS 251

Hartmann Schopper (b. 1542)

*Ars artium sive magna cabalistica* (*Art of arts, or the great cabalistic*)

Manuscript on paper in Latin

Germany, ca. 1650-1700

(139 fols., 282 x 202 mm)

LJS 252

Aristotle (384-322 BCE)

*Physica* (*Physics*), Book 5, chapters 6 and 7

Manuscript on parchment in Latin

England, ca. 1300

(1 fol., 316 x 160 mm)

LJS 254 \*

Franz Helm (ca. 1500-1567)

Treatise on artillery and gunpowder

Manuscript on paper in German

Southeast Germany, late 16<sup>th</sup> century

(285 fols., 320 x 210 mm)



LJS 255

Giovanni Boccaccio (1313-75)

*Du cas des nobles hommes et femmes*, translated from the Latin by Laurent de Premierfait (c. 1380–1418), fragment with a miniature of the suicide of Phedra

Manuscript on parchment in French

France, possibly Paris, mid-15<sup>th</sup> century

(1 fols, 336 x 300 mm)

LJS 264

Gauthier de Metz (fl. 13<sup>th</sup> century)

*Image du monde (Mirror of the world)*

Manuscript on parchment in French

France, ca. 1400

(126 fols., 210 x 153 mm)

LJS 266

*La generacion de Adam (Genealogy of the kings of England)*

Manuscript on parchment in French

Northwest France, 1404-06

(45 fols., 352 x 185 mm)

LJS 267 \*

Compendium containing: Jacobus de Cessolis (ca. 1250 – ca. 1322), *Ludo schaccorum (On the game of chess)*; Pseudo-Seneca, *De remediis fortuitarum (On the remedies of fortune)*; *Cronica gestorum a Cesare et Pompeio (Chronicle of the deeds of Caesar and Pompey)*; Pseudo-Isidorus Hispalensis, *Ymago mundi (Image of the world)*; and works of Petrarch

Manuscript on parchment in Latin

Probably northern Italy, 1409

(175 fols., 190 x 122 mm)

LJS 268

Ptolemy

*Al-Majisti (Almagest)*

Manuscript on cream paper in Arabic

Andalusia, 783 AH/ 1381 CE

(185 fols., 280 x 215 mm)

LJS 269  
Mathematical tablet  
Manuscript on clay in cuneiform  
Babylonia, ca. 20<sup>th</sup>-18<sup>th</sup> century BCE  
(61 x 38 mm)

LJS 270  
Mathematical tablet  
Manuscript on clay in cuneiform  
Babylonia, ca. 1900-1700 BCE  
(60 x 41 mm)

LJS 271  
Niccolò di Giovanni Machiavelli  
Receipt  
Manuscript on paper in Italian  
Florence, Italy, 28 December 1531  
(1 fol., 328 x 229 mm)

LJS 272  
*Pattern-book of bridles and bits*  
Ink drawings on paper  
Germany, 17<sup>th</sup> century  
(49 fols., 400 x 273 mm)

LJS 273  
Land grant document  
Manuscript on parchment in Latin  
Benevento, Italy, 821  
(1 fol., 423 x 140 mm)

LJS 275 \* (*right*)  
Land sale document  
Manuscript on parchment in Latin  
Benevento, Italy, 823  
(1 fol., 743 x 184 mm)



LJS 278

Dioscorides Pedanius of Anazarbos

*Kitāb-i ḥashā'ish (Herbal)*

Manuscript on paper in Persian

Deccan, India, Muharram 1004/ September 1595

(169 fols., 400 x 280 mm)

LJS 280 \*

Raymond of Peñafort (1175?-1275)

*Decretales abbreviate Gregorii IX (Abbreviated decretals of Gregory IX)*

Manuscript on parchment in Latin

France, ca. 1250-1300

(147 [of 163] fols., 210 x 154 mm)

LJS 285

Francesco Gonzaga (Duke of Mantua, 1540-50)

*Decreto di Banco Feneratizio (Bank charter to Isaac de Massaran)*

Manuscript on parchment in Latin

Mantua, Italy, 24 May 1542

(1 fol., 347 x 440 mm)

LJS 286

Nāṣir al-Dīn al-Ṭūsī

*Tadhkirat uṣūl handasa al-ḥisāb li-Uqlīdus (Commentary on Euclid's Elements of geometry)*

Manuscript on paper in Arabic

Persia, Rabi I 890 AH/ April 1485 CE

(231 fols., 180 x 111 mm)

LJS 289

*Algorismus (Mathematical reckoning)*

Manuscript on parchment in Latin

Italy, ca. 1450-75

(98 fols., 120 x 105 mm)

LJS 293

Abū Bakr al-Ḥaṣṣār

*Kitāb al-bayān wa'l-tadhkira fī ṣan'at 'amal al-'iyar* (Book of demonstration and memorization), Part 1

Manuscript on buff paper in Arabic

Baghdad, Iraq, Safar 590 AH/ January-February 1194 CE

(87 fols., 232 x 165 mm)

LJS 294

'Abd al-Mu'min ibn Yūsuf al-Urmawī (ca. 1216-1294)

*Kitāb al-adwār fī al-mūsīqā* (Book of cycles in music)

Manuscript on paper in Arabic

Mosul, Iraq, 7 Dhu'l-Qa'da 1103 AH/ 22 July 1692 CE

(26 fols., 300 x 206 mm)

LJS 295

'Abd al-Mu'min ibn Yūsuf al-Urmawī (ca. 1216-1294)

*Al-Risāla al-sharafiya fī al-nisāb al-ta'lifiya* (Sharafian treatise on musical proportion), with commentary

Manuscript on cream paper in Persian

Persia, 815 AH/ 1412 CE

(59 fols., 148 x 88 mm)

LJS 296

'Imād al-Dīn Ya'qūb ibn Aḥmad al-Kāshānī (Kāshī) (c.1290-1344)

*Īdāḥ al-maqāṣid li-farā'id al-fawā'id* (Elucidation of the principles in the gems of the Fawā'id)

Manuscript on burnished paper in Arabic

Isfahan, Iran, 720 AH/ September 1320 CE

(163 fols., 246 x 109 mm)

LJS 299

Ibn Sīnā (Avicenna) (890-1037)

*Sefer ha-Ḳanon*, Hebrew translation of *Al-Qānūn fī al-ṭibb* (Canon of medicine), with other short medical works and commentaries in Judeo-Arabic

Manuscript on paper in Hebrew, Judeo-Arabic, and Arabic

Yemen, 15<sup>th</sup> or early 16<sup>th</sup> century

(147 fols., 208 x 153 mm)

LJS 300

Johannes Regiomontanus (1436-1476)

*Calendurium and Ephemerides (Calendar and Almanac)*

Manuscript on paper in Latin

Upper Austria, possibly Lambach, ca. 1500

(377 fols., 162 x 120 mm)

LJS 301

Combined multiplication table

Manuscript on baked clay tablet in cuneiform

Babylonia, ca. 1990-1700 BCE

(200 x 125 mm)

LJS 302

Surveying tablet

Manuscript on a partially-baked clay tablet in cuneiform

Babylonia, 18<sup>th</sup> century BCE

(95 x 97 mm)

LJS 304

*Commissioni (Commissions)*, for Girolamo Priuli, Podestà of Brescia

Manuscript on parchment in Latin, with an original Persian-style sunk-compartment binding

Venice, Italy, 6 March 1574

(210 fols., 225 x 165 mm)

LJS 308 \*

Edward III (King of England, 1327-77)

Royal Letter patent granting a license (to Robert de Burghcher) to close a public road at Stansted in Essex

Manuscript on parchment in Latin

Gloucester, England, 16 August 1347

(1 fol., 190 x 270 mm)

LJS 309 \*

*Collateral letter for a one-fifth share of a brewery*

Manuscript on papyrus in Demotic and Greek

Meïdoum, Egypt, 201-200 BCE

(1 fol., 255 x 92 mm)

LJS 310 \*

Map of a district in Tarn-et-Garonne, between Castelsarrasin, Castelferrus, and the monastery of Belleperche

Manuscript on parchment in Latin

Castelferrus, France, between 1460 and 1545

(1 sheet, 630 x 700 mm)

LJS 311 \*

Ibn Sīnā (Avicenna) (980-1037)

*Sefer ha-Ḳanon*, Hebrew translation of *Al-Qānūn fī al-ṭibb* (*Canon of medicine*)  
[and]

Moses ben Maimon (Maimonides) (1135-1204)

*Ma'amar ha-nikbad* (*Treatise on poisons and their antidotes*)

Manuscript on paper in Hebrew

Italy, 15<sup>th</sup> century

(132 fols., 195 x 140 mm)

LJS 312

Joseph ben Moses Sarfati (fl. ca. 1400-1450)

*Ir siḥon* (*On arithmetic*)

Manuscript on paper in Hebrew

Spain, 15<sup>th</sup> century

(59 fols., 137 x 105 mm)

LJS 313

Gottfried Wilhelm von Leibniz (1646-1716)

*Causa secretionis liquarum a sanguine in corpore animalī* (*Cause of secretions of bodily fluid in animals*), working notes

Autograph manuscript on paper in Latin

Possibly Germany, ca. 1715

(1 fol., 332 x 217 mm)

LJS 314 \*

East India Company

Petition to Shah 'Abbas II of Persia seeking revenues from the customs in the port of Gombroon

Manuscript on parchment in English

London, England, 9 April 1660

(1 fol., 574 x 478 mm)

LJS 319

Sailing directions from Manila to destinations within Manila Bay

Manuscript on paper in Spanish

Manila, Philippines, ca. 1750

(4 fols., 314 x 215 mm)

LJS 320

*Geometria (Geometry)*

Manuscript on paper in German and Latin

Germany, 18<sup>th</sup> century

(83 fols., 162 x 110 mm)

LJS 321

John Darker

*A geometrical extraction for all affected to the mathematickes...*

[bound with]

Documents by Henry St. George, John Digby, and James I, and a 15th-century Land Register

Manuscript on paper in English

Levington, Suffolk, England, 25 March 1648

(60 fols., 431 x 305 mm)

LJS 322

Ībn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb (Canon of medicine)*, fragments of Books 3, 4, and 5

Manuscript on fine brown paper in Arabic

Persia or Turkey, possibly 13<sup>th</sup> century

(74 fols., 249 x 160 mm)

LJS 323

A watercolor of the planetary system, entitled “Circumferentia, latitudo, et altitudo globorum cum mensura corporum et diametrorum planetarum secundum communiorem sapientum opiniorem” (“Circumferences, widths, and heights of the spheres, with measurements of the bodies and diameters of the planets, according to the general opinion of the wise”)

Manuscript on paper in Latin

Italy, 16<sup>th</sup>- 17<sup>th</sup> century



(1 fol., 493 x 504 mm)

LJS 325

Manuscript collation of *L'ethica d'Aristotile ridotta in compendio da ser Brunetto Latini* (*Brunetto Latini's commentary on the Ethics of Aristotle*)  
[Lyon: Giovanni de Tornes, 1568]

Printed on paper, with manuscript commentary, in Italian

France, after 1568

(185 pp., 212 x 150 mm)

LJS 342 \*

Visconti Chancellery

Documents relating to water rights in Milan, with a decree of 1444

Manuscript on parchment in Latin

Milan, Italy, 1383-86

(45 fols., 187 x 138 mm)

LJS 345

William Bourne (d. 1583)

*Inventions or devices*

Autograph manuscript on paper in English

Gravesend, England, ca. 1576

(120 fols., 200 x 150 mm)

LJS 346

Vincenzo I Gonzaga (Duke of Mantua, 1562-1612)

Edicts of amnesty for the Jews in Mantua

Manuscript on paper in Latin and Italian

Mantua, Italy, 10 November 1594

(20 fols., 355 x 247 mm)

LJS 347

Boethius (ca. 480–524 or 525 CE)

*De consolatione philosophiae* (*On the consolation of philosophy*)

Manuscript on parchment in Latin

England, 14<sup>th</sup> century

(43 fols., 202 x 137 mm)

LJS 355

İbn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb (Canon of medicine)*, Books 3, 4, and 5, edited by Muḥammad ‘Alī al-Kātīb

Manuscript on European paper in Arabic

Ramadan 608 AH/ February 1212 CE, but probably 15<sup>th</sup> century  
(182 fols., 320 x 215 mm)

LJS 356

Ornamental horse harnesses and bridle patterns

Manuscript on paper in Italian, 2 vols.

Italy and Prague or Austria, ca. 1550-1600

(Vol. I: 46 fols., 436 x 281 mm, Vol. II: 31 fols., 432 x 285 mm)

LJS 358

Letter to Cardinal Rodolfo Pio da Carpi (1500-1564), with commentary on a passage from Varro’s *De re rustica (On agriculture)*

Manuscript on paper in Italian

Possibly Como, Italy, ca. 1560

(5 fols., 305 x 210 mm)

LJS 359

İbn Sīnā (Avicenna) (980-1037)

*Canon medicinae (Canon of medicine)*, parts of Books 1 and 2, translated from Arabic by Gherardo da Cremona (1113-1187)

Manuscript on paper in Latin

England, ca. 1250-1300

(18 fols., 280 x 210 mm)

LJS 361

Collection of astronomical and astrological tables, with commentaries on the Gospel and Epistle readings for the whole temporal by Durandus of St. Pourçain and Jacobus of Lausanne

Manuscript on parchment in Latin

Naples, Italy, 1327

(48 fols., 218 x 150 mm)

LJS 379 \* (*see pages 46-47*)  
Ferdinando I de' Medici (1549-1609)  
Document inviting Jewish merchants to settle in Livorno and Pisa  
Manuscript on parchment in Italian  
Florence, Italy, 10 June 1593  
(12 fols., 257 x 200 mm)

LJS 380 \*  
Sextus Empiricus (ca. 160-210 CE)  
*Pros mathēmatikous* (*Against the professors*)  
Manuscript on parchment in Greek  
Italy, ca. 1430-40  
(276 fols., 162 x 100 mm)

LJS 381 \*  
Sallust (86-34 BCE)  
*Catilinae conjuratio* (*Conspiracy of Catiline*) and *Bellum Jugurthinum*  
(*Jugurthine War*)  
Manuscript on parchment in Latin  
Padua, Italy, ca. 1455-65  
(160 fols., 178 x 113 mm)

LJS 382  
Georg Hayniger  
Alchemical compendium of recipes and drawings  
Autograph manuscript on parchment and paper in Latin, German, and  
Czech  
Vienna, Austria, ca. 1476  
(94 fols., 123 x 84 mm)

LJS 383  
Legal document  
Manuscript on paper in French  
France, 1592  
(1 fol., 266 x 178 mm)

# DON FERDINAN.

Medici per la Dio gratia Gran Duca  
di Toscana III. e di Firenze e di Siena  
Duca III. Sig.<sup>re</sup> di Porto Ferraio nell'  
Isola del Elba, di Castiglione della Pes-  
caia e della Isola del Giglio, e gran M.<sup>ro</sup>  
de la S.<sup>ra</sup> Relig.<sup>ne</sup> di S. Stefano &c. 23



*A*tutti uoi mercanti di qualsiuoglia  
natione leuantini, e ponentini spa-  
gnoli, porroghesi, Greci, todeschi &  
Italiani, hebrei, turchi, e Mori, Armenij, Persia-  
ni, & altri, saluto. 3,

*S*egnifichiamo per queste nostre Pareute lette-  
re, qualmente essendo noi mossi da degni rif-  
petti, e massimo dal desiderio, che e in noi per  
beneficio publico di accrescer nell'occasioni, l'  
animo a forestieri, di uenire a frequentare, i loro  
traffichi, e mercantie nella nostra diletta Cità di

Pisa, e porto e scala di Luorno, con stare, e abitare  
con le vore famiglie, o senza esse, sperando n'habia di  
resulare utile a tutta Italia, noni suditi, e massime,  
a poueri, pero per le sopra detti, & altre cause, e ragio-  
ni, ci siamo mossi a darui, e concederui, se come noi, in uir-  
tu delle presenti ui diamo, e concediamo le gratie &  
Priuileggi prerogatiue immunita, e essentione in-  
frascripte ~ ~ ~ ~ ~

**P**rima concediamo a tutti mercanti hebrei tur-  
chi, e mori, & altri mercanti reali libero, & am-  
plissimo saluo condoto, e libera faculta, e licentia,  
che possiate uenire a stare, traficare, passare, & abi-  
tare con le vore famiglie, o senza esse, partire, tornare  
e negoziare nella detta nora Citta e Porto di Luor.  
& anco stare per negoziare altrui per tutto il nora  
Ducal dominio senza impedim, o molestia alcuna  
reale, o personale per tempo durate di Anni uenti  
cinque prossimi con la disdetta precedente di Anni  
cinque, intendendo pero saluo il beneplacito della  
Sedia Applicata nello scortare, e sminuire il tempo,  
che in euento, che da qual che Sommo Pontefice, o  
altrui, noi fussimo ricerchi di licentiarui, tumi, o

LJS 384

William of Conches (1080-ca. 1150)

*De philosophia mundi* (*On the philosophy of the world*), followed by a commentary on the Gospels attributed to Hugh of St. Victor (1096?-1141)

Manuscript on parchment in Latin

France, ca. 1150-1200

(21 fols., 207 x 145 mm)

LJS 385 \*

Collection of classical Latin school texts, including Boethius (ca. 480-524 or 525 CE), *De consolacione philosophiae* (*On the consolation of philosophy*), Book 1, ch. 1; Marcus Tullius Cicero, *De officiis* (*On obligations*), Book 1; Terence, *Adria* and *Eunuchus*; Virgil, *Aeneid*; and various medical remedies and recipes

Manuscript on paper in Latin

Italy, ca. 1500

(102 fols., 210 x 140 mm)

LJS 386 \*

ʿAbd al-Raḥmān al-Khāzinī

*Kitāb mīzān al-ḥikmah* (*Book of the balance of wisdom*)

Manuscript on paper in Arabic

Persia, ca. 1270

(98 fols., 195 x 150 mm)

LJS 387

Abu'l-Ṭāhir Muḥammad al-Fīrūzābādī

*Al-Qāmūs al-Muḥīṭ* (*Comprehensive lexicon*)

Manuscript on paper in Arabic

Western Persia, ca. 1400

(480 fols., 232 x 165 mm)

LJS 388

Maḥmūd ibn Muḥammad ibn ʿUmar al-Jighmīnī

*Al-Mulakhkhaṣ fī al-ḥayʿa* (*Quintessence of astronomy*)

Manuscript on paper in Arabic

Persia, 29 Rabi' I, 786 AH/ 21 May 1384 CE

(20 fols., 168 x 98 mm)

LJS 389

Hua Shou

*Shisi jing fa hui* (*Discourse on circulation*)

Manuscript on taishi (bamboo) paper in Chinese

China, Ming dynasty (16<sup>th</sup> century)

(54 fols., 310 x 180 mm)

LJS 391

Abū Bakr Muḥammad ibn Zakarīyā Rāzī (al-Rāzī)

*Kitāb al-Manṣūrī fī al-ṭibb* (*Book on medicine dedicated to al-Mansuri*),

translated into Latin as *Liber ad Almansorem*; fragment

Manuscript on parchment in Latin

Perisa, ca. 13<sup>th</sup> century

(1 fol., ca. 152 x 355 mm)

LJS 392

Nāṣir al-Dīn al-Ṭūsī

*Kitāb taḥrīr al-majistī* (*Recension of the Almagest*)

Manuscript on paper in Arabic

Possibly Persia, 13 Dhu'l Qa'da 813 AH/ 9 March 1411 CE

(223 fols., 262 x 167 mm)

LJS 393

Ibn Abī Ṣādiq al-Nīsābūrī

*Sharḥ kitāb Buqrāṭ* (*Commentary on Hippocrates*) and *Kitāb ibn Ishāq*

(*Commentary on questions on medicine for students by Johannitius*)

Manuscript on paper in Arabic

Mamluk Egypt or Syria, mid-14<sup>th</sup> century

(81 fols., 246 x 170 mm)

LJS 394

Abū Naṣr Ismā'īl al-Jawharī

*Tāj al-lughah wa-ṣiḥāḥ al-'arabīyah* (*Crown of language and the correct Arabic*)

Manuscript on paper in Arabic

Egypt or Syria, 14<sup>th</sup> century

(203 fols., 260 x 170 mm)

LJS 395

Bartholomaeus Anglicus (ca. 1200-1272)

*Liber de rerum proprietatibus* (*On the order of things*)

Manuscript on parchment in Latin

Possibly France, 13<sup>th</sup> century

(2 half-folio fragments, 215 x 185 mm)

LJS 397 \*

Student's notes on astronomy

Manuscript on paper in Latin

Wittenberg, Germany, ca. 1550

(40 fols., 200 x 194 mm)

LJS 398

Sa'īd ibn Hibat Allāh

*Maqāla fī khalq al-insān* (*Discourse on the creation of man*)

Manuscript on paper in Arabic

Mamluk Syria or Iraq, 15 Jumada II 689 AH/ 25 June 1290 CE

(84 fols., 255 x 175 mm)

LJS 399 \*

Abū Bakr Muḥammad ibn al-Hasan al-Karkhī (953-ca.1029)

*Inbāt al-miyāh al-khafīyah* (*Tapping the hidden waters*)

Manuscript on paper in Arabic

Persia, 14 Dhu'l-Qa'da 1084 AH/ 20 February 1674 CE

(49 fols., 190 x 125 mm)

LJS 400

'Alī ibn Muḥammad al-Qūshjī (d. 1474 or 5)

*Sharḥ-i zīj-i Gurgānī* (*Commentary on the Gorgoni horoscope*)

Manuscript on paper in Persian

Persia, 899 AH/ 1493-4 CE

(409 fols., 177 x 126 mm)



LJS 401

Modestin Fachs

*Probiert buechlein (Small work on assaying)*

Manuscript on paper in German

Germany, ca. 1650-1700

(265 fols., 152 x 203 mm)

LJS 402

Georg Ernst Multz von Walda

*Die eroffnete koenigliche ober Huingarische Kupffer-Handlung Schmoelnitz (The open royal Upper-Hungarian copper works at Schmoelnitz) and Kurzer Auszug der kaiserlichen und koeniglichen Maximilianischen Berg-Ordnung auch Cremnitz und Schemnitzer Erleuehterungen (Short summary of the imperial and royal mining regulations of Maximilian, with explanatory notes on Cremnitz and Schemnitz)*

Manuscript on paper in German

Germany, 1743

(2 vols.: 409 and 214 pp., 168 x 213 mm)

LJS 403

Ibrahīm al-Ḥusaynī

Collection of alchemical treatises

Autograph manuscript on paper in Arabic

Herat, Afghanistan, 901-04 AH/ ca. 1469-99 CE

(173 fols., 160 x 115 mm)

LJS 404

Fakhr al-Dīn Muḥammad ibn ‘Umar al-Rāzī (1149 or 50-1210)

*Jawāmi‘ al-‘ulūm (Totality of the sciences)*

Manuscript on buff colored paper in Persian

Persia, early 13<sup>th</sup> century

(178 fols., 177 x 140 mm)

LJS 405 \*

‘Alī ibn Muḥammad al-Māwardī

*Kitāb al-siyāsah tas’ hīl al-naẓar wa-ta’jīl al-ẓafar (Treatise on government)*

Manuscript on paper in Arabic

North Africa, probably Egypt, mid-13<sup>th</sup> century

(75 fols., 225 x 155 mm)

LJS 406 \* (*right*)

Yūsuf ibn Abī Bakr al-Sakkākī (1160-1229)

*Kitāb miftāḥ al-‘ulūm* (*Book of the key to the sciences*)

Manuscript on salmon and ivory colored paper in Arabic

Anatolia, Turkey, 1 Safar 671 AH/ 28 August 1272 CE

(301 fols., 258 x 182 mm)

LJS 407

Naṣīr al-Dīn Muḥammad ibn Muḥammad al-Ṭūsī (1201-1274)

Astronomical anthology and astronomer's handbook

Manuscript on buff colored paper in Arabic

Persia, early 14<sup>th</sup> century

(76 fols., 166 x 110 mm)

LJS 408

Qāḍī-Zādeh al-Rūmī

*Sharḥ al-mulakhkhaṣ fi al-hay'a*, illustrated commentary on *al-Mulakhkhaṣ fi al-hay'a* (*Quintessence of astronomy*) by Maḥmūd ibn Muḥammad al-Jighmīnī (d. 1221?)

Manuscript on paper in Arabic with some Persian

Samarqand, Uzbekistan, end of Ramadan 830 AH/ 25 July 1427 CE

(65 fols., 168 x 117 mm)

LJS 409 \* (*page 54*)

Anonymous, attributed to alchemist student of Ja'far al-Ṣādiq (702?-765 or 6)

*Kitāb al-kashf wa-al-bayān wa-īdāḥ al-rumūz fi al-burhān* (*Book of revelation and clarification, and the elucidation of riddles by the proof*)

Manuscript on paper in Arabic

Persia, 15<sup>th</sup> century

(9 fols., 152 x 105 mm)

LJS 410

*Sharḥ al-mulakhkhaṣ fi al-hay'a*, commentary on *al-Mulakhkhaṣ fi al-hay'a* (*Quintessence of astronomy*) by Maḥmūd ibn Muḥammad al-Jighmīnī (d. 1221?)

Manuscript on paper in Arabic

Persia, ca. 15<sup>th</sup> century

(62 fols., 220 x 140 mm)



مخرج الصاد والراي والبسن  
وما من طرف اللسان لطراف الشاها  
العلماء يحجج الفظة. والذال والتاكد  
ماطر الشفة السفلى واطراف السننا  
العلماء يحجج الفأ وما من الشفتين  
مخرج البنا والميم والواو ومن الحياشيم  
مخرج النون الحففة وعندى ان  
الحكم في انواعها ومخارجها  
على ما حكى كل احد مستقيم الطبع  
سلم الذوق اذا راجع نفسه  
واعترها كما ينبغي وان كان بخلاف  
الغرض لا مكان التفارث في الالاء  
واذود تبينت لما ذكرنا ملرجع الى

**الماد الاول**

والكلام منه يستدعى تمهيد اضل  
وهو ان اعتبار الالاضع في الجملة  
مضبوطه ادخلت في المناسبة  
من اعتبارها منشرة واعني  
بالاشارة ورودها مستتافه في

وصفة ما ذكرنا من الشكل المشور

جميع



LJS 411

‘Abd al-‘Alī ibn Muḥammad ibn Ḥusayn al-Birjandī (16<sup>th</sup> century)  
*Sharḥ-i zī-i jadīd-i sulṭānī* (Commentary on the astronomical tables of Ulugh Beg)

Manuscript on paper in Persian

Persia, ca. 1523-28

(242 fols., 240 x 177 mm)

LJS 412

Qustā ibn Lūqā al-Ba‘labakkī (ca. 820-ca. 912)

*Risāla fi’l-‘amal bi’-l-kura* (Treatise on working with the globe), *Risālat kayfiyat al-arsad* (Treatise on the manner of astronomy), and *al-‘Amal bi’-aṣṭarulāb* (On the use of the astrolabe)

Manuscript on paper in Arabic

Cairo, Egypt, Safar 950 AH/ May 1543 CE

(18 fols., 230 x 152 mm)

LJS 413

Ḥamd Allāh Mustawfī Qazvīnī (fl.1330-1340)

*Nuzhat al-qulūb* (Diversion of the hearts)

Manuscript on polished brownish paper in Persian

Deccan, India, late 16<sup>th</sup>-early 17<sup>th</sup> century

(252 fols., 313 x 252 mm)

LJS 414

Astronomical compendium, including: Nāṣir ibn Ḥaydar ibn Muḥammad al-Shīrāzī, *Mukhtaṣar dar ‘ilm-i aṣṭarulāb*; Abū al-Khayr Muḥammad Taqī Fārsī, *Risāla maṭālī’-nāma* and *Dhakhīrat Iskandar Dhī al-Qarnayn*; with other texts on the eclipse of the moon, horoscopes, astronomy, and the astrolabe

Manuscript on paper in Persian

Persia, ca. 1636-70

(168 fols., 193 x 125 mm)

LJS 416

Regulations for bread-making in Rouen

Manuscript on parchment in French

Rouen, France, 1518

(28 fols., 210 x 150 mm)

LJS 417

Ībn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb* (*Canon of medicine*), Books 3, 4, and 5

Manuscript on polished cream paper in Arabic

Persia, 899-904 AH/ 1494-98 CE

(598 fols., 316 x 173 mm)

LJS 418

*Passio sancti Blasii* (*Life and Martyrdom of St. Blaise*), followed by readings and notated chants for a Mass of St. Blaise, two Guidonian hand drawings, and an alphabet

Manuscript on parchment in Latin

Italy, 13<sup>th</sup> century

(8 fols., 334 x 210 mm)

LJS 419

*Herbal*

Manuscript on paper in Italian and Latin

Northern Italy, 15<sup>th</sup> century

(100 fols., 245 x 176 mm)

LJS 420

Perpetual calendar illustrating the Metonic cycle

Manuscript on paper in Latin

Possibly Italy, ca. 1480

(8 fols., 201 x 140 mm)

LJS 421

Anonymous

*Lettre d'Hippocrate à César* (*Letter from Hippocrates to Caesar*)

Manuscript on parchment in Old French

France, ca. 1350-75

(24 fols., 180 x 118 mm)

LJS 422  
Niẓāmī Ganjavī (1140/41-1202/3)  
*Haft Paykar* (*The seven images*)  
Manuscript on paper in Persian  
Persia, 16<sup>th</sup> century  
(68 fols., 250 x 155 mm)

LJS 423 \*  
*De zifras* (*On cyphers*)  
Manuscript on paper in Spanish  
Spain, ca. 1600  
(364 pp., 372 x 280 mm)

LJS 424  
Johannes Mellarinus (compiler)  
Compendium of medical texts, including: Abū Bakr Muḥammad ibn Zakarīyā al-Rāzī (865?-925?), *Nonus Almansoris* (*Book of Mansur*); Bartolomeo Montagnana (fl. 1422-1460), *Consilium de regimine preservativo a pestilencia* (*Recommendations for a preventative regime against the plague*); *Collecta ex antidotario* (*Collection from a list of remedies*); Nicolaus de Polonia (1225-1316), *De cura morbi Gallici* (*On the care of the "French disease", ie. syphilis*); and Guy de Chauliac, (ca. 1300-1368), *De antidotis particularibus et appropriatibus membris* (*On remedies for particular and individual extremities*)  
Manuscript on parchment in Latin  
Bologna, Italy, 1500-1  
(526 fols., 205 x 155 mm)

LJS 425  
Ruhbānī (scribe, adaptor)  
*Kitāb tawḍīḥ al-alḥān* (*Treatise on music*)  
Manuscript on cream paper in Persian with final pages in Hindi  
Persia, 17<sup>th</sup> century  
(67 fols., 320 x 198 mm)

LJS 426

Ībn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb (Canon of medicine)*, Book 1

Manuscript on paper in Arabic

Persia, late 14<sup>th</sup> century

(321 fols., 200 x 115 mm)

LJS 427

Ībn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb (Canon of medicine)*, Books 2-5

Manuscript on parchment in Arabic

Persia, 16<sup>th</sup>-17<sup>th</sup> century

(367 fols., 320 x 220 mm)

LJS 429

Pseudo-Isidore of Seville

*De philosophia naturalis (On natural philosophy)*

Manuscript on paper in Latin

Germany, possibly Mainz, 15<sup>th</sup> century

(14 fols., 200 x 135 mm)

LJS 430

Bartolomeo Montagnana (fl. 1422-1460)

*De urinarum judiciis (On the analysis of urine)*

Manuscript on paper in Latin

Possibly France, ca. 1500

(78 fols., 152 x 100 mm)

LJS 432

Instructions for a bombardier on the theory and practice of artillery

Manuscript on paper in Italian

Italy, possibly Rome, mid-17<sup>th</sup> century

(165 fols., 260 x 190 mm)



LJS 433 \*

Hatano Baiko (scribe)

*Yōso zusetsu (Illustrated treatise on abscesses and tumors)*

Manuscript on paper in Japanese

Japan, ca. 1600

(29 double-sheet fols., 270 x 195 mm)

LJS 434

Abū Ishāq bin Muḥammad ‘Awfī (copyist)

*Taqwīm (Geodesy)*

Manuscript on paper in Persian

Timurid Empire, Eastern Persia, ca. 1507

(7 fols., 220 x 140 mm)

LJS 435 \*

Abū al-Qāsim Khalaf ibn ‘Abbas al-Zahrāwī (d. 1013)

*Al-Maqālah fī al-‘amal bi-al-yad (On surgery and instruments)*

Manuscript on buff paper in Arabic

Mesopotamia, 869 AH/ 1464 CE

(108 fols., 172 x 125 mm)

LJS 436

Maḥmūd ibn Abī Bakr Faraḍī (1246 or 7-1300)

*Ḍaw’ al-sirāj (Light of the lamp)*, a commentary on Sirāj al-Dīn al-Sajāwandī’s (fl. 12<sup>th</sup> century) *al-Farā’iḍ al-sirājiyya (On the law of inheritance)*

Manuscript on buff paper in Arabic

Near East, 747 AH/ 1346-7 CE

(123 fols., 180 x 127 mm)

LJS 437

Matthaeus Platearius (d. 1161)

*De re medicina (On medical matters)*

Manuscript on parchment in Latin

Southern Germany or Austria, ca. 1400

(74 fols., 195 x 128 mm)

LJS 438

Marsilio Ficino

Translations of neo-Platonic and neo-Pythagorean texts, including those of Spesippus of Athens, Alcinous, Pseudo-Pythagorus of Samos, Luciani, Vincent Guarini, Juliano Verachio, and Christoforo Landini

Manuscript on paper in Latin

Florence, Italy, late 15<sup>th</sup> century

(97 fols., 210 x 137 mm)

LJS 439

Abū Yūsuf Ya'qūb ibn Ishāq al-Kindī

Treatise on science, Aristotelian physics, and the reconciliation of Islamic revelation and Greek science

Manuscript on brown paper in Arabic

Andalusia, Spain, 14<sup>th</sup> century

(25 fols., 235 x 165 mm)

LJS 440

Fakhr al-Dīn al-Rāzī

*Kitāb lubāb al-ishārāt wa'l-tanbihāt*

Manuscript on polished salmon and ivory-colored paper in Arabic

Anatolia, Turkey, 16 Shawwal 603 AH/ 16 May 1207 CE

(58 fols., 254 x 165 mm)

LJS 441

Aydamar ibn 'Abd Allāh Jaldakī (fl. 1349-1361)

*Kitāb al-miṣbah* (*Book of the lamp*), followed by a pseudo-Platonic work on alchemy with commentary attributed to Jābir ibn Ḥayyān

Manuscript on paper in Arabic

Syria, probably Aleppo, ca. 1560

(128 fols., 212 x 160 mm)

LJS 442 \* (*right*)

Book of instruction for a cannon master

Manuscript on paper in German

Bavaria, Germany, late 16<sup>th</sup> century

(132 fols., 310 x 192 mm)



LJS 443

A collection of scientific texts mainly on the calendar ordered by the scholars T'ovma Medsop'etsi in 1416 and Hakob Vardapet Ghrimetsi (1360-1426)

Manuscript on paper in Armenian  
Armenia, 1416 and 1426  
(258 fols., 185 x 140 mm)

LJS 444

Jamāl al-Dīn Muḥammad ibn Muḥammad al-Aqsara'ī (Kamāl al-Dīn Maḥmūd al-Astarābādī, scribe)

*Kitāb ḥall al-Mūjiz (Key to the Mujiz)*

Manuscript on paper in Arabic  
22 Shawwal 884 AH/ 6 January 1480 CE  
(247 fols., 250 x 185 mm)

LJS 445

Johannes Lichtenberger

*Pronasticatio (Prognostication)*, with the calendar of Joannes Regiomontanus (1436-1476) for 1475-1513

Manuscript on paper in German  
Nuremberg, Germany, ca. 1500  
(227 fols., 230 x 160 mm)

LJS 446 \*

Ībn Sīnā (Avicenna) (980-1037)

*Al-Qānūn fī al-ṭibb (Canon of medicine)*, fragment

Manuscript on paper in Arabic with annotations in Hebrew  
Spain (probably Cordoba or Toledo), ca. 1100-1150  
(92 fols., 240 x 160 mm)

LJS 447

Aḥmad ibn Yaḥyā ibn Faḍl Allāh al-'Umarī

*Masālik al-abṣār fī mamālik al-amṣār (Voyages of the eyes)*

Manuscript on paper in Arabic  
Aleppo, Syria, 1710  
(193 fols., 410 x 287 mm)

LJS 448

Antonio de' Medici (1576-1621) (compiler)

*Segreti (Secrets)*, a collection of medical recipes

Manuscript on paper in Italian and Latin

Florence, Italy, November 1614

(ca. 400 fols., various sizes approximating 290 x 220 mm)

LJS 449

Anthology of astro-medical texts

Manuscript on paper in German and Latin

Southwest Germany, ca. 1446

(36 fols., 294 x 210 mm)

LJS 450

Compendium of texts on civil law

Manuscript on paper in Latin

Italy, ca. 1450-1500

(331 fols., 308 x 212 mm)

LJS 451

Commentary on the *Doctrinale* of Alexander de Villa Dei

Manuscript on parchment in Latin

France, late 13<sup>th</sup> century

(60 fols., 195 x 135 mm)

LJS 452

*Vocabularius ex quo (Latin dictionary)*

Manuscript on paper in Latin and German

Germany, 15<sup>th</sup> century

(194 fols., 218 x 134 mm)

LJS 453

Abu'l-Walīd Muḥammad ibn Rushd (Averroës) (1126-1198)

Commentaries on the scientific texts of Aristotle

Manuscript on paper in Hebrew

Probably Germany, 1446

(269 fols., 303 x 201 mm)

LJS 454

Treatise on how to pack a Dutch merchantship  
Manuscript on paper scroll in Japanese  
Nagasaki, Japan, ca. 1800  
(2 fols., 370 x 8940 mm)

LJS 455

Two alchemical treatises: Ibn al-Bahā', *Fawā'id al-ḥabīb* (*Benefits of the beloved*) and al-'Abbās Aḥmad ibn Ṣadr Allāh al-Hāshimī, *Zinjār al-Ḥukamā'* (*On the science of alchemy*)  
Manuscript on buff paper in Arabic  
Probably Mamuk, Egypt, ca. 1400  
(235 fols., 247 x 160 mm)

LJS 456

Pseudo-Aristotle  
*Al-Siyāsa fī tadbīr al-riyāsa* (*On politics*)  
Manuscript on paper in Arabic  
Andalusia, Spain, 797 AH/ 1394 CE  
(22 fols., 256 x 190 mm)

LJS 457

Paolo Veneto (ca. 1370-1428)  
*Logica parva* (*Small book of logic*)  
[and]  
Paolo della Pergola (student of Veneto's)  
*Tractatus de sensu composito et diviso* (*Treatise on composite and divided sense*)  
Manuscript on paper in Latin  
Perugia, Italy, 1475  
(89 fols., 230 x 160 mm)

LJS 458

Marco Girolamo Vida (ca. 1485-1566) (compiler)  
*Abcondita naturae* (*Concoctions of nature*), a collection of medical recipes  
Manuscript on paper in Latin  
Cremona, Italy, 1545  
(187 fols., 206 x 157 mm)

LJS 459 \*  
Pseudo-Aristotle  
*Kitāb sirr al-asrār (Secret of secrets)*  
Manuscript on beige-brown paper in Arabic  
Probably Mosul, Iraq, ca. 1200  
(128 fols., 190 x 130 mm)

LJS 460 (see LJS 37)

LJS 461 \*  
Daniel Krammer  
*Ein schönes buech der büxenmaister.. (Design and construction of fireworks and ballistics)*  
Manuscript on paper in German  
Augsburg, Germany, 1661  
(124 fols., 284 x 195 mm)

LJS 462  
Alexander of Villa Dei  
*Algorismus (Mathematical reckoning)*, followed by an anonymous treatise in verse on the calendar  
Manuscript on parchment in Latin  
Spain, ca. 1200-50  
(14 fols., 227 x 149 mm)

LJS 463  
Astro-medical anthology, including a calendar for Constance  
Manuscript on parchment in German  
Southern Germany, region of Lake Constance, 1443  
(72 fols., 230 x 163 mm)

LJS 464  
Abū 'Abd al-Raḥmān Ya'qūb ibn Ayyūb al-Muwāḥidī (fl. 1350-1389)  
Commentary on the *Talkhīṣ a'māl al-ḥisāb*, a treatise on mathematical operations by Aḥmad ibn Muḥammad Ibn al-Bannā  
Manuscript on paper in Arabic  
Granada, Spain, 749 AH/ 1348 CE  
(97 fols., 140 x 210 mm)

LJS 465

‘Abd al-‘Azīz Ibn ‘Uthmān (Alcabitius) (d. 967)

Treatise on geometry

Manuscript on paper in Arabic

Spain, 13<sup>th</sup> century

(7 fols., 203 x 144 mm)

LJS 466

Astronomical and geographical miscellany

Manuscript on cream paper in Persian and Arabic

Persia, ca. 1450

(104 fols., 160 x 120 mm)

LJS 467

*Khawāṣṣ al-manāzil wa’l-shuhūr wa’l-anwā’* (Forecasting of the weather in relation to the growing of crops and farming)

Manuscript on paper in Arabic

North Africa or Spain, 14<sup>th</sup> century

(23 fols., 202 x 128 mm)

LJS 468

Meir ben Solomon Alguadez (fl. 1390-1410)

*Sefer mekiz nirdamim* (Book of remedies), translated from the Spanish by

Joseph ha-Kohen (1496-1578)

Manuscript on paper in Hebrew

Italy, 16<sup>th</sup> century

(109 fols., 212 x 154 mm)

LJS 469

İbn Sīnā (Avicenna) (980-1037)

*Sefer ha-seder ha-katan*, Hebrew translation and abridgement of *Al-Qānūn fī al-ṭibb* (Canon of medicine), with letters of the Finzi family, and homiletic comments on the Biblical Joseph story

Manuscript on paper in Hebrew

Italy, ca. 1490

(21 fols., 140 x 108 mm)



LJS 470

Abraham ben Meshullam (scribe)

Collection of medical recipes, folk remedies, charms, and spells, including a Hebrew translation of John of Parma (d. 1289), *Practica (Practice)*

Manuscript on paper in Hebrew

Siena, Italy, 1533

(115 fols., 227 x 165 mm)

LJS 471

Medical miscellany, including: a manual by Gentile da Foligno (d. 1348); Dinus de Garbo, (d. 1327), *Sefer zirurgia (On surgery)*; Bernard Alberti, *Mavo be-melakhah (Introduction to the medical practice)*, translated from the Latin by Solomon ben Abraham Avigdor (b. 1384); and *Mafteah hasodot (Key of secrets)*

Manuscript on paper and parchment in Hebrew

Italy, 14<sup>th</sup>-15<sup>th</sup> century

(85 fols., 220 x 150 mm)

LJS 472

Abraham bar Hiyya Savasorda (ca. 1065-ca. 1136)

*Ḥeshbon mahalkhot ha-kokhavim (Calculation of the course of the stars)*

Manuscript on paper in Hebrew

Possibly Spain, 15<sup>th</sup> century

(98 fols., 198 x 140 mm)

LJS 473

*L'arte del navegare (Treatise on ships and ship-building)*

Manuscript on parchment and paper in Italian and Latin

Northeastern Italy, possibly Venice, 1464-65

(84 fols., 210 x 135 mm)

LJS 474

Qāḍī-Zādeh al-Rūmī (Mir Hassmad Abid, scribe)

Commentary on Al-Jīghmīnī's *al-Mulakhkhaṣ fi'l-hay'a (Quintessence of astronomy)*

Manuscript on polished paper in Arabic

Timurid Empire, northeast Persia, 15<sup>th</sup> or 16<sup>th</sup> century

(92 fols., 235 x 160 mm)

LJS 475

Andrea Amandio (presumed artist)

*Herbal*, fragment

Watercolor on paper

Belluno or Venice, Italy, ca. 1415

(1 fol., 300 x 182 mm)

LJS 476

Isaac ben Joseph Israeli the Younger

*Yesod 'olam (Foundation of the world)*

Manuscript on parchment and paper in Hebrew

Spain or Italy, ca. 1460

(70 fols., 200 x 137 mm)

LJS 477

*Florilegium*, including long sections on natural history

Manuscript on parchment in Latin

England, possibly Oxford, ca. 1250

(71 fols., 195 x 140 mm)

LJS 478

Astronomical anthology, including: Muḥammad ibn Aḥmad al-Bīrūnī's (973-1048) *Kitāb fi isti'āb al-wujūh al-mumkina fi ṣan'at al-aṣṭurlāb (On the construction of the astrolabe)*; two treatises on crab and drum astrolabes now attributed to the 10<sup>th</sup>-century astronomer Naṣṭūlus (or Baṣṭūlus); a treatise on an instrument for finding the direction of Mecca; a treatise on the ecliptic; and a treatise on the compass

Manuscript on paper in Arabic

Persia or Anatolia, 23 and 26 Jumadi II 625 AH/ 28 and 31 May 1228 CE

(87 fols., 254 x 170 mm)

LJS 479

Taddeo Alderotti (1223-1295)

*Libellus de sanitate (Book of health)*, with an anonymous treatise entitled *Fiori di virtu (Flowers of virtue)* and an excerpt from the Pseudo-Aristotelian *Secret of Secrets*

Manuscript on parchment in Latin

Italy, 14<sup>th</sup> century (after 1323)

(18 fols., 225 x 150 mm)

LJS 480

On the use of a ploughing team

Written on a clay tablet in cuneiform

Babylonia, ca. 1900-1700 BCE

(135 x 85 mm)

LJS 481

Commentary on the *Talkhīṣ aʿmāl al-ḥisāb* (*Summary of arithmetical operations*) of Ibn al-Bannāʾ

Manuscript on paper in Arabic

Spain, 13<sup>th</sup> century

(156 fols., 190 x 270 mm)

LJS 482

Albertus Magnus (1193?-1280)

Commentaries on Aristotle's *De generatione et corruptione* (*On generation and corruption*) and *Meteorologica* (*Meteorology*)

Manuscript on parchment in Latin

Southern France, possibly Toulouse, late 13<sup>th</sup> century

(104 fols., 301 x 223 mm)

LJS 483

Disputed questions from Aristotle's *Physics*

Manuscript on paper in Latin

Ingolstadt, Germany, ca. 1480

(240 fols., 210 x 158 mm)

LJS 484 \*

Flavius Vegetius Renatus

*Digesta artis mulomedicinalis*, translated anonymously from the Latin as *L'arte de la medicina de le bestie* (*Art of animal medicine*)

Manuscript on parchment in Italian

Italy, possibly Ferrara, ca. 1450-75

(92 fols., 212 x 150 mm)

LJS 485

Andreas Vesalius (1514-1564)

*De humani corporis fabrica librorum epitome* (On human anatomy)

Manuscript on paper in Yiddish

Germany, possibly Hesse, ca. 1590-95

(61 fols., 205 x 155 mm)

LJS 486

*Kitāb alghāz* (Book of riddles)

Manuscript on paper in Arabic

Egypt, Mamluk period, 17<sup>th</sup> Rajab 720 AH/ 23 August 1320 CE

(93 fols., 250 x 180 mm)

LJS 487

Two anonymous works: Treatise on the composition and the use of a combined nocturnal and sun dial; and a treatise on making a cross-staff

Manuscript on paper in Latin

Franche-Comte, France, 16<sup>th</sup> century

(12 fols., 190 x 145 mm)

LJS 488 \*

Luca Pacioli (ca. 1445-1517)

*Cose di geometria* (Matters of geometry), excerpt  
[with]

Leon Battista Alberti (1404-1472)

*De re aedificatoria* (On architecture), excerpt

Manuscript on paper in Italian and Latin

Venice, Italy, 15<sup>th</sup>-16<sup>th</sup> century

(18 fols., 200 x 150 mm)

LJS 489

Palimpsested document

Manuscript on parchment in Bactrain

Northern Hindu-Kush, Afghanistan, 4<sup>th</sup> or 5<sup>th</sup> century BCE

(1 fol., 90 x 150 mm)

LJS 490

Astronomical compendium

Manuscript on paper in Latin with some German

Baden-Württemberg or Rhenish Palatinate (Heidelberg?), Germany,

ca. 1450-60

(93 fols., 215 x 154 mm)

LJS 491

Mathematical treatise drawing on Euclid and Arabic scholars

Manuscript on paper in Hebrew

Probably Italy, ca. 1650-1750

(1 fol., 200 x 140 mm)

LJS 492

Medical miscellany

Manuscript on paper in Hebrew

Spain, mid-15<sup>th</sup> century

(8 fols., 293 x 206 mm)

LJS 493

Aristotle (384-322 BCE)

*Physica* (*Physics*)

Manuscript on parchment in Latin

France, ca. 1150-75

(1 fol., from decorated manuscript, 285 x 211 mm)

LJS 494

Johannes de Sacrobosco (ca. 1195 – ca. 1256)

*Mareh ha-ofanim* (*Treatise on the spheres*), translated from the Latin by

Solomon Avigdor and Judah ibn Tibbon

Manuscript on paper in Hebrew

Northern Italy, ca. 1425-50

(22 fols., 209 x 151 mm)

LJS 495

Abu Hafṣ ‘Umar ibn Muḥammad Ibn al-Wardī (d. 1457?)

*Kharīdat al-‘ajā’ib wa farīdat al-gharā’ib* (*Pearl of wonders and the uniqueness of things strange*)

Manuscript on paper in Arabic

Possibly Spain, ca. 1419-50

(268 fols., 195 x 134 mm)

LJS 496

Treatise on practical mathematical calculation

Manuscript on paper in Italian

Italy, ca. 1450-75

(10 fols., 415 x 290 mm)

LJS 497

*Canones vel operationes in operando quadrante* (*Treatise on the use of the astrolabe quadrant*)

Manuscript on paper in Latin

Western Mediterranean, possibly Italy, early 16<sup>th</sup> century

(28 fols., 207 x 145 mm)

LJS 498 \*

Miscellany on astronomy, including: Abraham bar Hiyya Savasorda (ca. 1065-ca. 1156), *Tsurat ha-arets* (*On astronomy*); Immanuel ben Jacob Bonfils (14<sup>th</sup> century), *Shesh kenafayim* (*Six wings*); Abu al-Qāsim Khalaf ibn ‘Abbas al-Zahrāwī (d. 1013), *Ahmad ibn alsaffar* (*Manual on the astrolabe*); Georg von Peurbach (1423-1461), *Iyyun ha-kokhavim ha-meshartim* (*New theories on the planets*); and Abraham ibn Ezra (1089-1164), *Keli hanhoshet* (*Brass instrument*)

Manuscript on paper in Hebrew

Austria?, Gratz?, ca. 1575

(200 fols., 210 x 172 mm)

LJS 499 \*

Abraham ben Mordecai Farissol (ca. 1451-ca. 1525)

*Igeret orḥot ‘olam* (*On world geography*)

Manuscript on paper in Hebrew

Northern Italy, 1524-8

(36 fols., 197 x 143mm)

LJS 500

*Liber mirabilium* (*Book of wonders*), a medical, alchemical, and viticultural compendium including: Hermes Trismegistus, *De transmutation metallorum* (*On the transmutation of metals*); Taddeo Alderotti (1223-1295), *De virtutibus* (*On the virtues*); and Arnaldus de Villanova (d. 1311), *Epistola de sanguine humano ad magistrum Iacobum de Toledo* (*Letter on human blood to master Jacobus de Toledo*)

Manuscript on parchment in Latin

Piran, Slovenia, 1451-5

(100 fols., 204 x 143mm)

