

Erika Ribechini

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4778881/publications.pdf>

Version: 2024-02-01

97
papers

3,848
citations

117625

34
h-index

138484

58
g-index

102
all docs

102
docs citations

102
times ranked

3463
citing authors

#	ARTICLE	IF	CITATIONS
1	A new Palaeolithic discovery: tar-hafted stone tools in a European Mid-Pleistocene bone-bearing bed. <i>Journal of Archaeological Science</i> , 2006, 33, 1310-1318.	2.4	308
2	Analytical Methods for the Characterization of Organic Dyes in Artworks and in Historical Textiles. <i>Applied Spectroscopy Reviews</i> , 2009, 44, 363-410.	6.7	198
3	Combined GC/MS Analytical Procedure for the Characterization of Glycerolipid, Waxy, Resinous, and Proteinaceous Materials in a Unique Paint Microsample. <i>Analytical Chemistry</i> , 2006, 78, 4490-4500.	6.5	176
4	Analytical Strategies for Characterizing Organic Paint Media Using Gas Chromatography/Mass Spectrometry. <i>Accounts of Chemical Research</i> , 2010, 43, 715-727.	15.6	148
5	From giant reed to levulinic acid and gamma-valerolactone: A high yield catalytic route to valeric biofuels. <i>Applied Energy</i> , 2013, 102, 157-162.	10.1	127
6	Characterisation of organic residues in pottery vessels of the Roman age from Antinoe (Egypt). <i>Microchemical Journal</i> , 2005, 79, 83-90.	4.5	121
7	Chemical study of triterpenoid resinous materials in archaeological findings by means of direct exposure electron ionisation mass spectrometry and gas chromatography/mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1787-1800.	1.5	107
8	Direct exposure electron ionization mass spectrometry and gas chromatography/mass spectrometry techniques to study organic coatings on archaeological amphorae. <i>Journal of Mass Spectrometry</i> , 2005, 40, 675-687.	1.6	104
9	Microwave-assisted dehydration of fructose and inulin to HMF catalyzed by niobium and zirconium phosphate catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 206, 364-377.	20.2	101
10	New Insights into the Ageing of Linseed Oil Paint Binder: A Qualitative and Quantitative Analytical Study. <i>PLoS ONE</i> , 2012, 7, e49333.	2.5	96
11	THE CHARACTERIZATION OF PAINTS AND WATERPROOFING MATERIALS FROM THE SHIPWRECKS FOUND AT THE ARCHAEOLOGICAL SITE OF THE ETRUSCAN AND ROMAN HARBOUR OF PISA (ITALY)*. <i>Archaeometry</i> , 2003, 45, 659-674.	1.3	94
12	Organic mass spectrometry in archaeology: evidence for Brassicaceae seed oil in Egyptian ceramic lamps. <i>Journal of Mass Spectrometry</i> , 2005, 40, 890-898.	1.6	81
13	Gas chromatographic mass spectrometric characterisation of plant gums in samples from painted works of art. <i>Journal of Chromatography A</i> , 2007, 1175, 275-282.	3.7	79
14	Gas chromatographic and mass spectrometric investigations of organic residues from Roman glass unguentaria. <i>Journal of Chromatography A</i> , 2008, 1183, 158-169.	3.7	69
15	Effect of ball-milling on crystallinity index, degree of polymerization and thermal stability of cellulose. <i>Bioresource Technology</i> , 2018, 270, 270-277.	9.6	69
16	A genome sequence from a modern human skull over 45,000 years old from Zlatá kůň in Czechia. <i>Nature Ecology and Evolution</i> , 2021, 5, 820-825.	7.8	69
17	Recent Advances in Analytical Pyrolysis to Investigate Organic Materials in Heritage Science. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 7313-7323.	13.8	61
18	Analytical Instrumental Techniques to Study Archaeological Wood Degradation. <i>Applied Spectroscopy Reviews</i> , 2015, 50, 584-625.	6.7	55

#	ARTICLE	IF	CITATIONS
19	Development and validation of an HPLC-DAD and HPLC/ESI-MS2 method for the determination of polyphenols in monofloral honeys from Tuscany (Italy). <i>Microchemical Journal</i> , 2016, 126, 220-229.	4.5	53
20	Characterisation of archaeological waterlogged wood by pyrolytic and mass spectrometric techniques. <i>Analytica Chimica Acta</i> , 2009, 654, 26-34.	5.4	50
21	Analytical Approaches Based on Gas Chromatography Mass Spectrometry (GC/MS) to Study Organic Materials in Artworks and Archaeological Objects. <i>Topics in Current Chemistry</i> , 2016, 374, 6.	5.8	49
22	Aromatic resin characterisation by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1134, 298-304.	3.7	48
23	In-depth characterization of valuable char obtained from hydrothermal conversion of hazelnut shells to levulinic acid. <i>Bioresource Technology</i> , 2017, 244, 880-888.	9.6	48
24	Chemical analyses of Egyptian mummification balms and organic residues from storage jars dated from the Old Kingdom to the Copto-Byzantine period. <i>Journal of Archaeological Science</i> , 2017, 85, 1-12.	2.4	48
25	Py-GC/MS, GC/MS and FTIR investigations on LATE Roman-Egyptian adhesives from opus sectile: New insights into ancient recipes and technologies. <i>Analytica Chimica Acta</i> , 2009, 638, 79-87.	5.4	43
26	Snapshots of lignin oxidation and depolymerization in archaeological wood: an EGA-MS study. <i>Journal of Mass Spectrometry</i> , 2015, 50, 1103-1113.	1.6	42
27	An integrated analytical approach for characterizing an organic residue from an archaeological glass bottle recovered in Pompeii (Naples, Italy). <i>Talanta</i> , 2008, 74, 555-561.	5.5	41
28	Degradation of wood by UV light: A study by EGA-MS and Py-GC/MS with on line irradiation system. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019, 139, 224-232.	5.5	41
29	Compound-specific radiocarbon dating and mitochondrial DNA analysis of the Pleistocene hominin from Salkhit Mongolia. <i>Nature Communications</i> , 2019, 10, 274.	12.8	39
30	Discovering the composition of ancient cosmetics and remedies: analytical techniques and materials. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1727-1738.	3.7	38
31	GC-MS and HPLC-ESI-QToF characterization of organic lipid residues from ceramic vessels used by Basque whalers from 16th to 17th centuries. <i>Microchemical Journal</i> , 2018, 137, 190-203.	4.5	38
32	An analytical approach based on X-ray diffraction, Fourier transform infrared spectroscopy and gas chromatography/mass spectrometry to characterize Egyptian embalming materials. <i>Microchemical Journal</i> , 2012, 103, 110-118.	4.5	37
33	Timing in Analytical Pyrolysis: Py(HMDS)-GC/MS of Glucose and Cellulose Using Online Micro Reaction Sampler. <i>Analytical Chemistry</i> , 2016, 88, 9318-9325.	6.5	37
34	Ingredients of a 2,000-y-old medicine revealed by chemical, mineralogical, and botanical investigations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1193-1196.	7.1	36
35	Characterisation of natural indigo and shellfish purple by mass spectrometric techniques. <i>Rapid Communications in Mass Spectrometry</i> , 2004, 18, 1213-1220.	1.5	35
36	A diagnosis of the yellowing of the marble high reliefs and the black decorations in the chapel of the tomb of Saint Anthony (Padua, Italy). <i>International Journal of Mass Spectrometry</i> , 2009, 284, 123-130.	1.5	35

#	ARTICLE	IF	CITATIONS
37	Monitoring/characterization of stickies contaminants coming from a papermaking plant – Toward an innovative exploitation of the screen rejects to levulinic acid. <i>Waste Management</i> , 2016, 49, 469-482.	7.4	34
38	New markers of natural and anthropogenic chemical alteration of archaeological lignin revealed by in situ pyrolysis/silylation-gas chromatography/mass spectrometry. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 118, 249-258.	5.5	34
39	Thermal degradation chemistry of archaeological pine pitch containing beeswax as an additive. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 111, 254-264.	5.5	33
40	An Etruscan ointment from Chiusi (Tuscany, Italy): its chemical characterization. <i>Journal of Archaeological Science</i> , 2009, 36, 1488-1495.	2.4	32
41	A multi-analytical approach to studying binding media in oil paintings. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 107, 1055-1066.	3.6	30
42	Multi-valorisation of giant reed (<i>Arundo Donax</i> L.) to give levulinic acid and valuable phenolic antioxidants. <i>Industrial Crops and Products</i> , 2018, 112, 6-17.	5.2	30
43	Co-pyrolysis of biomass and plastic: Synergistic effects and estimation of elemental composition of pyrolysis oil by analytical pyrolysis-gas chromatography/mass spectrometry. <i>Bioresource Technology</i> , 2022, 354, 127170.	9.6	29
44	Colorants and oils in Roman make-ups – an eye witness account. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 1019-1028.	11.4	28
45	Antihyperlipidemic effect of a <i>Rhamnus alaternus</i> leaf extract in Triton-induced hyperlipidemic rats and human HepG2 cells. <i>Biomedicine and Pharmacotherapy</i> , 2018, 101, 501-509.	5.6	28
46	Chronologies in wood and resin: AMS 14C dating of pre-Hispanic Caribbean wood sculpture. <i>Journal of Archaeological Science</i> , 2012, 39, 2238-2251.	2.4	27
47	Development and Optimisation of an HPLC-DAD-ESI-Q-ToF Method for the Determination of Phenolic Acids and Derivatives. <i>PLoS ONE</i> , 2014, 9, e88762.	2.5	27
48	The painting of the Etruscan – Tomba della Quadriga Infernale – (4th century BC), in Sarteano (Siena). <i>Tj ETQq0,0,0 rgBT /Overlock 1</i>	2.4	26
49	Micromorphological and chemical elucidation of the degradation mechanisms of birch bark archaeological artefacts. <i>Heritage Science</i> , 2015, 3, .	2.3	26
50	Deterioration effects of wet environments and brown rot fungus <i>Coniophora puteana</i> on pine wood in the archaeological site of Biskupin (Poland). <i>Microchemical Journal</i> , 2018, 138, 132-146.	4.5	26
51	MicroRaman and infrared spectroscopic characterization of ancient cosmetics. <i>Vibrational Spectroscopy</i> , 2008, 47, 82-90.	2.2	25
52	Py-GC/MS characterization of a wild and a selected clone of <i>Arundo donax</i> , and of its residues after catalytic hydrothermal conversion to high added-value products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 94, 223-229.	5.5	25
53	Analysis of lignin from archaeological waterlogged wood by direct exposure mass spectrometry (DE-MS) and PCA evaluation of mass spectral data. <i>Microchemical Journal</i> , 2008, 88, 186-193.	4.5	24
54	Gas chromatography/mass spectrometry and pyrolysis-gas chromatography/mass spectrometry for the chemical characterisation of modern and archaeological figs (<i>Ficus carica</i>). <i>Journal of Chromatography A</i> , 2011, 1218, 3915-3922.	3.7	24

#	ARTICLE	IF	CITATIONS
55	Analytical pyrolysis with in situ thermally assisted derivatisation, Py(HMDS)-GC/MS, for the chemical characterization of archaeological birch bark tar. <i>Journal of Analytical and Applied Pyrolysis</i> , 2011, 91, 219-223.	5.5	24
56	First chemical evidence of royal purple as a material used for funeral treatment discovered in a Gallo-Roman burial (Naintré, France, third century AD). <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 1739-1748.	3.7	23
57	Long-lasting ergot lipids as new biomarkers for assessing the presence of cereals and cereal products in archaeological vessels. <i>Scientific Reports</i> , 2018, 8, 3935.	3.3	23
58	Analytical Pyrolysis and Mass Spectrometry to Characterise Lignin in Archaeological Wood. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 240.	2.5	22
59	Analytical pyrolysis with in-situ silylation, Py(HMDS)-GC/MS, for the chemical characterization of archaeological and historical amber objects. <i>Heritage Science</i> , 2013, 1, 6.	2.3	21
60	A multi-analytical approach using FTIR, GC/MS and Py-GC/MS revealed early evidence of embalming practices in Roman catacombs. <i>Microchemical Journal</i> , 2017, 133, 49-59.	4.5	19
61	Py-GC/MS and HPLC-DAD characterization of hazelnut shell and cuticle: Insights into possible re-evaluation of waste biomass. <i>Journal of Analytical and Applied Pyrolysis</i> , 2017, 127, 321-328.	5.5	18
62	A MULTI-ANALYTICAL APPROACH FOR THE CHARACTERIZATION OF COMMODITIES IN A CERAMIC JAR FROM ANTINOE (EGYPT)*. <i>Archaeometry</i> , 2009, 51, 480-494.	1.3	17
63	Comics VOC-abulary: Study of the ageing of comic books in archival bags through VOCs profiling. <i>Polymer Degradation and Stability</i> , 2019, 161, 39-49.	5.8	17
64	Evolved gas analysis-mass spectrometry and isoconversional methods for the estimation of component-specific kinetic data in wood pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104725.	5.5	17
65	Characterization of an ancient chemical preparation: pigments and drugs in medieval Islamic Spain. <i>Journal of Archaeological Science</i> , 2011, 38, 3350-3357.	2.4	16
66	Field-Emission Scanning Electron Microscopy and Energy-Dispersive X-Ray Analysis to Understand the Role of Tannin-Based Dyes in the Degradation of Historical Wool Textiles. <i>Microscopy and Microanalysis</i> , 2014, 20, 1534-1543.	0.4	16
67	GC/MS investigations of the total lipid fraction of wool: A new approach for modelling the ageing processes induced by iron-gallic dyestuffs on historical and archaeological textiles. <i>Microchemical Journal</i> , 2015, 118, 131-140.	4.5	15
68	Chemical investigations of bitumen from Neolithic archaeological excavations in Italy by GC/MS combined with principal component analysis. <i>Analytical Methods</i> , 2019, 11, 1449-1459.	2.7	14
69	SIFT-ing archaeological artifacts: Selected ion flow tube-mass spectrometry as a new tool in archaeometry. <i>Talanta</i> , 2020, 207, 120323.	5.5	14
70	Multi-technique study of a ceramic archaeological artifact and its content. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 100, 144-148.	3.9	13
71	Chemical investigation of barks from broad-leaved tree species using EGA-MS and GC/MS. <i>Journal of Analytical and Applied Pyrolysis</i> , 2015, 114, 235-242.	5.5	13
72	Direct exposure-(chemical ionisation)mass spectrometry for a rapid characterization of raw and archaeological diterpenoid resinous materials. <i>Mikrochimica Acta</i> , 2008, 162, 405-413.	5.0	12

#	ARTICLE	IF	CITATIONS
73	Fast screening for hydrolysable and condensed tannins in lignocellulosic biomass using reactive Py-GC/MS with in situ silylation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018, 135, 242-250.	5.5	12
74	Characterization of volatile and non-volatile fractions of spices using evolved gas analysis and multi-shot analytical pyrolysis. <i>Microchemical Journal</i> , 2020, 159, 105321.	4.5	12
75	Chemical investigation on black pigments in the carved decoration of sixteenth century alabaster tombs from Zaragoza (Spain). <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 2191-2197.	3.7	11
76	“Treasures” of black wood, brilliantly polished™: five examples of Tañno sculpture from the tenth–sixteenth century Caribbean. <i>Antiquity</i> , 2011, 85, 942-959.	1.0	10
77	Positive and negative–mode laser desorption/ionization–mass spectrometry (LDI–MS) for the detection of indigoids in archaeological purple. <i>Journal of Mass Spectrometry</i> , 2013, 48, 384-391.	1.6	9
78	Extraction of proteins and residual oil from flax (<i>Linum usitatissimum</i>), camelina (<i>Camelina sativa</i>), and sunflower (<i>Helianthus annuus</i>) oilseed press cakes. <i>Biomass Conversion and Biorefinery</i> , 2023, 13, 1915-1926.	4.6	9
79	Effects of Milling and UV Pretreatment on the Pyrolytic Behavior and Thermal Stability of Softwood and Hardwood. <i>Energy & Fuels</i> , 2021, 35, 11353-11365.	5.1	9
80	A comparison of fast and reactive pyrolysis with in situ derivatisation of fructose, inulin and Jerusalem artichoke (<i>Helianthus tuberosus</i>). <i>Analytica Chimica Acta</i> , 2018, 1017, 66-74.	5.4	8
81	Co-pyrolysis of wood and plastic: Evaluation of synergistic effects and kinetic data by evolved gas analysis-mass spectrometry (EGA-MS). <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 159, 105308.	5.5	8
82	Indian Ocean trade connections: characterization and commercial routes of torpedo jars. <i>Heritage Science</i> , 2020, 8, .	2.3	8
83	Profiling of high molecular weight esters by flow injection analysis-high resolution mass spectrometry for the characterization of raw and archaeological beeswax and resinous substances. <i>Talanta</i> , 2020, 212, 120800.	5.5	7
84	Molecular profiling of Peru Balsam reveals active ingredients responsible for its pharmaceutical properties. <i>Natural Product Research</i> , 2021, 35, 5311-5316.	1.8	7
85	Archaeology of the invisible: The scent of Kha and Merit. <i>Journal of Archaeological Science</i> , 2022, 141, 105577.	2.4	7
86	First evidence of purple pigment production and dyeing in southern Arabia (Sumhram, Sultanate of) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i> 2016, 19, 486-491.	3.3	6
87	Analytical pyrolysis and thermal analysis to chemically characterise bitumen from Italian geological deposits and Neolithic stone tools. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 158, 105262.	5.5	6
88	Investigations of the relics and altar materials relating to the apostles St James and St Philip at the Basilica dei Santi XII Apostoli in Rome. <i>Heritage Science</i> , 2021, 9, .	2.3	6
89	Advancements in the chemical structures of Ergot acyl glycerides by high performances liquid chromatography coupled with high resolution mass spectrometry. <i>Microchemical Journal</i> , 2018, 141, 229-239.	4.5	5
90	Olive mill wastewaters: quantitation of the phenolic content and profiling of elenolic acid derivatives using HPLC-DAD and HPLC/MS2 with an embedded polar group stationary phase. <i>Natural Product Research</i> , 2019, 33, 3171-3175.	1.8	5

#	ARTICLE	IF	CITATIONS
91	Fructose and inulin: Behaviour under analytical pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016, 121, 205-212.	5.5	3
92	Pyrolysate composition and silylation efficiency in analytical pyrolysis of glucans as a function of pyrolysis time. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020, 145, 104747.	5.5	3
93	Assessing the efficiency of supercritical fluid extraction for the decontamination of archaeological bones prior to radiocarbon dating. <i>Analyst, The</i> , 2019, 144, 6128-6135.	3.5	2
94	Focusing on Volatile Organic Compounds of Natural Resins by Selected-Ion Flow Tube-Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 0, , .	2.8	2
95	Bitumen residue on a Late Ceramic Age three-pointer from Marie-Galante, Guadeloupe: Chemical characterization and ligature evidence. <i>Journal of Archaeological Science: Reports</i> , 2018, 21, 243-258.	0.5	1
96	Anwendung der analytischen Pyrolyse zur Untersuchung organischer Materialien in Kulturgütern. <i>Angewandte Chemie</i> , 2018, 130, 7435-7446.	2.0	0
97	A unique early medieval pendant (kaptorga) from Opole Groszowice (Silesia, SW Poland) in the light of interdisciplinary archaeometric studies. <i>Sprawozdania Archeologiczne</i> , 2020, 72, .	0.3	0