

Luisa Pasti

List of Publications by Year in descending order

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110
papers

2,825
citations

147801

31
h-index

214800

47
g-index

112
all docs

112
docs citations

112
times ranked

2833
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent applications in chiral high performance liquid chromatography: A review. <i>Analytica Chimica Acta</i> , 2011, 706, 205-222.	5.4	227
2	Adsorption of pharmaceuticals from aqueous solutions on synthetic zeolites. <i>Microporous and Mesoporous Materials</i> , 2012, 148, 174-183.	4.4	169
3	Optimization of signal denoising in discrete wavelet transform. <i>Chemometrics and Intelligent Laboratory Systems</i> , 1999, 48, 21-34.	3.5	117
4	Comparison of Multivariate Calibration Techniques Applied to Experimental NIR Data Sets. <i>Applied Spectroscopy</i> , 2000, 54, 608-623.	2.2	81
5	Pirkle-type chiral stationary phase on core-shell and fully porous particles: Are superficially porous particles always the better choice toward ultrafast high-performance enantioseparations?. <i>Journal of Chromatography A</i> , 2016, 1466, 96-104.	3.7	71
6	Silica-supported 5-(pyrrolidin-2-yl)tetrazole: development of organocatalytic processes from batch to continuous-flow conditions. <i>Green Chemistry</i> , 2012, 14, 992.	9.0	68
7	Fourier analysis of multicomponent chromatograms. Theory and models. <i>Analytical Chemistry</i> , 1990, 62, 1846-1853.	6.5	67
8	Toward the optimization of continuous-flow aldol and α -amination reactions by means of proline-functionalized silicon packed-bed microreactors. <i>Tetrahedron Letters</i> , 2011, 52, 619-622.	1.4	66
9	Recent advancements and future directions of superficially porous chiral stationary phases for ultrafast high-performance enantioseparations. <i>Analyst</i> , 2017, 142, 555-566.	3.5	64
10	Adverse effects of plastic ingestion on the Mediterranean small-spotted catshark (<i>Scyliorhinus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	2.5	55
11	Rationale behind the optimum efficiency of columns packed with new 1.9 μ m fully porous particles of narrow particle size distribution. <i>Journal of Chromatography A</i> , 2016, 1454, 78-85.	3.7	49
12	Fourier analysis of multicomponent chromatograms. Application to experimental chromatograms. <i>Analytical Chemistry</i> , 1993, 65, 2209-2222.	6.5	45
13	Factors affecting drug adsorption on beta zeolites. <i>Journal of Separation Science</i> , 2013, 36, 1604-1611.	2.5	45
14	Photoelectrochemical mineralization of emerging contaminants at porous WO ₃ interfaces. <i>Applied Catalysis B: Environmental</i> , 2017, 204, 273-282.	20.2	45
15	The composition of PM 1 and PM 2.5 samples, metals and their water soluble fractions in the Bologna area (Italy). <i>Atmospheric Pollution Research</i> , 2015, 6, 708-718.	3.8	44
16	Degradation of emerging concern contaminants in water by heterogeneous photocatalysis with Na ₄ W ₁₀ O ₃₂ . <i>Applied Catalysis B: Environmental</i> , 2017, 203, 9-17.	20.2	44
17	Recent Achievements and Future Challenges in Supercritical Fluid Chromatography for the Enantioselective Separation of Chiral Pharmaceuticals. <i>Chromatographia</i> , 2019, 82, 65-75.	1.3	41
18	Stochastic Theory of Size Exclusion Chromatography: Peak Shape Analysis on Single Columns. <i>Analytical Chemistry</i> , 2005, 77, 3138-3148.	6.5	39

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19	Adsorption mechanism of 1,2-dichloroethane into an organophilic zeolite mordenite: A combined diffractometric and gas chromatographic study. <i>Microporous and Mesoporous Materials</i> , 2012, 151, 358-367.	4.4	38
20	Bioaccessibility and HPLC-MS/MS chemical characterization of phenolic antioxidants in Red Chicory (<i>Cichorium intybus</i>). <i>Journal of Functional Foods</i> , 2017, 33, 94-102.	3.4	38
21	Determination of n-alkanes, PAHs and nitro-PAHs in PM2.5 and PM1 sampled in the surroundings of a municipal waste incinerator. <i>Atmospheric Environment</i> , 2017, 149, 12-23.	4.1	37
22	Location of MTBE and toluene in the channel system of the zeolite mordenite: Adsorption and host-guest interactions. <i>Journal of Solid State Chemistry</i> , 2012, 194, 135-142.	2.9	36
23	Fluorous Affinity Chromatography for Enrichment and Determination of Perfluoroalkyl Substances. <i>Analytical Chemistry</i> , 2012, 84, 7138-7145.	6.5	35
24	Experimental validation of the stochastic theory of size-exclusion chromatography: Retention on single and coupled columns. <i>Chromatographia</i> , 2003, 57, S171-S186.	1.3	34
25	The role of water in DCE adsorption from aqueous solutions onto hydrophobic zeolites. <i>Microporous and Mesoporous Materials</i> , 2012, 160, 182-193.	4.4	34
26	The Way to Ultrafast, High-Throughput Enantioseparations of Bioactive Compounds in Liquid and Supercritical Fluid Chromatography. <i>Molecules</i> , 2018, 23, 2709.	3.8	34
27	Experimental evidence of the kinetic performance achievable with columns packed with new 1.9 μ m fully porous particles of narrow particle size distribution. <i>Journal of Chromatography A</i> , 2016, 1454, 86-92.	3.7	33
28	Fourier analysis of multicomponent chromatograms. Numerical evaluation of statistical parameters. <i>Analytical Chemistry</i> , 1990, 62, 1854-1860.	6.5	32
29	Decoding Two-Dimensional Complex Multicomponent Separations by Autocovariance Function. <i>Analytical Chemistry</i> , 2004, 76, 3055-3068.	6.5	32
30	Evaluation of saline tracer performance during electrical conductivity groundwater monitoring. <i>Journal of Contaminant Hydrology</i> , 2011, 123, 157-166.	3.3	32
31	New frontiers and cutting edge applications in ultra high performance liquid chromatography through latest generation superficially porous particles with particular emphasis to the field of chiral separations. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2457-2465.	3.7	32
32	Fourier analysis of multicomponent chromatograms. Recognition of retention patterns. <i>Analytical Chemistry</i> , 1992, 64, 2164-2174.	6.5	31
33	PCB separation by HRGC-MS. Fourier analysis for characterizing Aroclor chromatograms. <i>Journal of High Resolution Chromatography</i> , 1994, 17, 839-850.	1.4	31
34	A Combined Kinetic and Thermodynamic Approach for the Interpretation of Continuous-Flow Heterogeneous Catalytic Processes. <i>Chemistry - A European Journal</i> , 2013, 19, 7802-7808.	3.3	31
35	Fourier analysis of multicomponent chromatograms. Theory of nonconstant peak width models. <i>Analytical Chemistry</i> , 1991, 63, 2627-2633.	6.5	30
36	Unmatched Kinetic Performance in Enantioselective Supercritical Fluid Chromatography by Combining Latest Generation Whelk-O1 Chiral Stationary Phases with a Low-Dispersion in-House Modified Equipment. <i>Analytical Chemistry</i> , 2018, 90, 10828-10836.	6.5	29

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37	A comparison of multivariate calibration techniques applied to experimental NIR data sets. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2001, 58, 195-211.	3.5	28
38	Adsorption of 1,2-dichloroethane on ZSM-5 and desorption dynamics by in situ synchrotron powder X-ray diffraction. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 175-182.	4.4	28
39	Understanding Mixed-Mode Retention Mechanisms in Liquid Chromatography with Hydrophobic Stationary Phases. <i>Analytical Chemistry</i> , 2014, 86, 4919-4926.	6.5	26
40	On the effect of chiral selector loading and mobile phase composition on adsorption properties of latest generation fully- and superficially-porous Whelk-O1 particles for high-efficient ultrafast enantioseparations. <i>Journal of Chromatography A</i> , 2018, 1579, 41-48.	3.7	25
41	Plastic ingestion by Atlantic horse mackerel (<i>Trachurus trachurus</i>) from central Mediterranean Sea: A potential cause for endocrine disruption. <i>Environmental Pollution</i> , 2021, 284, 117449.	7.5	25
42	Application of Fourier transform to multivariate calibration of near-infrared data. <i>Analytica Chimica Acta</i> , 1998, 364, 253-263.	5.4	24
43	Chromatography as L [∞] -Stochastic process. <i>Journal of Chromatography A</i> , 2006, 1126, 257-267.	3.7	24
44	Determination of adsorption isotherms by means of HPLC: Adsorption mechanism elucidation and separation optimization. <i>Journal of Separation Science</i> , 2009, 32, 727-741.	2.5	22
45	Influence of water on the retention of methyl tertiary-butyl ether by high silica ZSM-5 and Y zeolites: a multidisciplinary study on the adsorption from liquid and gas phase. <i>RSC Advances</i> , 2015, 5, 86997-87006.	3.6	22
46	Ultra-trace determination of total mercury in Italian bottled waters. <i>Chemosphere</i> , 2019, 219, 896-913.	8.2	22
47	Calibration in thermal field flow fractionation with polydisperse standards: Application to polyolefin characterization. <i>Journal of Separation Science</i> , 2002, 25, 691-702.	2.5	21
48	Exploring Fluorous Affinity by Liquid Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 6854-6860.	6.5	21
49	An advanced oxidation process by photoexcited heterogeneous sodium decatungstate for the degradation of drugs present in aqueous environment. <i>Applied Catalysis B: Environmental</i> , 2018, 239, 345-351.	20.2	21
50	Competitive adsorption of VOCs from binary aqueous mixtures on zeolite ZSM-5. <i>RSC Advances</i> , 2016, 6, 54544-54552.	3.6	20
51	Photoelectrochemical degradation of pharmaceuticals at \hat{t}^{25} modified WO ₃ interfaces. <i>Catalysis Today</i> , 2020, 340, 302-310.	4.4	20
52	Nutrient Composition and Antioxidant Performances of Bread-Making Products Enriched with Stinging Nettle (<i>Urtica dioica</i>) Leaves. <i>Foods</i> , 2021, 10, 938.	4.3	20
53	Single-Molecule Observation and Chromatography Unified by L [∞] -Process Representation. <i>Analytical Chemistry</i> , 2005, 77, 2524-2535.	6.5	19
54	High temperature thermal field-flow fractionation of polyethylene and polystyrene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1225-1234.	2.1	18

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55	Binding of Dipeptides and Amino Acids to Teicoplanin Chiral Stationary Phase: Apparent Homogeneity of Some Heterogeneous Systems. <i>Analytical Chemistry</i> , 2009, 81, 6735-6743.	6.5	18
56	Kinetics and dynamic behaviour of toluene desorption from ZSM-5 using in situ high-temperature synchrotron powder X-ray diffraction and chromatographic techniques. <i>Catalysis Today</i> , 2016, 277, 118-125.	4.4	18
57	Photoelectrocatalytic degradation of emerging contaminants at WO ₃ /BiVO ₄ photoanodes in aqueous solution. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2150-2163.	2.9	18
58	Removal of emerging organic contaminants from aqueous systems: adsorption and location of methyl-tertiary-butylether on synthetic ferrierite. <i>Mineralogical Magazine</i> , 2014, 78, 1161-1175.	1.4	17
59	Quantitative determination of zolmitriptan in rat blood and cerebrospinal fluid by reversed phase HPLC-ESI-MS/MS analysis: Application to in vivo preclinical pharmacokinetic study. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 901, 72-78.	2.3	16
60	Mass transfer kinetics on modern Whelk-O1 chiral stationary phases made on fully- and superficially-porous particles. <i>Journal of Chromatography A</i> , 2021, 1637, 461854.	3.7	16
61	Thermal Field-Flow Fractionation of Charged Submicrometer Particles in Aqueous Media. <i>Analytical Chemistry</i> , 2007, 79, 5284-5296.	6.5	15
62	A New Method to Investigate the Intrusion of Water into Porous Hydrophobic Structures under Dynamic Conditions. <i>Analytical Chemistry</i> , 2013, 85, 19-22.	6.5	15
63	Removal of perfluorooctanoic acid from water by adsorption on high surface area mesoporous materials. <i>Journal of Porous Materials</i> , 2014, 21, 423.	2.6	15
64	New insights into perfluorinated adsorbents for analytical and bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 17-21.	3.7	15
65	High-Silica Zeolites as Sorbent Media for Adsorption and Pre-Concentration of Pharmaceuticals in Aqueous Solutions. <i>Molecules</i> , 2020, 25, 3331.	3.8	15
66	Temperature-Induced Desorption of Methyl tert-Butyl Ether Confined on ZSM-5: An In Situ Synchrotron XRD Powder Diffraction Study. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 34.	2.0	14
67	Modeling the nonlinear behavior of a bioactive peptide in reversed-phase gradient elution chromatography. <i>Journal of Chromatography A</i> , 2020, 1616, 460789.	3.7	14
68	Decoding of complex isothermal chromatograms recovered from space missions. <i>Journal of Chromatography A</i> , 2003, 1002, 179-192.	3.7	13
69	Multi-residual GC-MS determination of personal care products in waters using solid-phase microextraction. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 2257-2265.	3.7	13
70	Gold-nanoparticle extraction and reversed-electrode-polarity stacking mode combined to enhance capillary electrophoresis sensitivity for conjugated nucleosides and oligonucleotides containing thioether linkers. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5405-5415.	3.7	13
71	Effect of Silica Alumina Ratio and Thermal Treatment of Beta Zeolites on the Adsorption of Toluene from Aqueous Solutions. <i>Minerals (Basel, Switzerland)</i> , 2017, 7, 22.	2.0	13
72	Investigation of mass transfer properties and kinetic performance of high efficiency columns packed with C ₁₈ sub-2 μm fully and superficially porous particles. <i>Journal of Separation Science</i> , 2020, 43, 1737-1745.	2.5	13

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73	Particulate adducts based on sodium risedronate and titanium dioxide for the bioavailability enhancement of oral administered bisphosphonates. <i>European Journal of Pharmaceutical Sciences</i> , 2010, 41, 328-336.	4.0	12
74	Revealing the Fine Details of Functionalized Silica Surfaces by Solid-State NMR and Adsorption Isotherm Measurements: The Case of Fluorinated Stationary Phases for Liquid Chromatography. <i>Chemistry - A European Journal</i> , 2014, 20, 8138-8148.	3.3	12
75	Formation of Supramolecular Clusters at the Interface of Zeolite X Following the Adsorption of Rare-Earth Cations and Their Impact on the Macroscopic Properties of the Zeolite. <i>ChemPhysChem</i> , 2018, 19, 2208-2217.	2.1	12
76	Data handling of complex GC-MS chromatograms: characterization of n-alkane distribution as chemical marker in organic input source identification. <i>Analyst, The</i> , 2009, 134, 671.	3.5	11
77	Dynamic chromatography: A stochastic approach. <i>Journal of Chromatography A</i> , 2010, 1217, 1000-1009.	3.7	11
78	PFAS as emerging pollutants in the environment: A challenge with FAU type and silver-FAU exchanged zeolites for their removal from water. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108026.	6.7	11
79	Signal processing of GC-MS data of complex environmental samples: Characterization of homologous series. <i>Analytica Chimica Acta</i> , 2007, 594, 128-138.	5.4	10
80	Simulation and Optimization of Power-Programmed SdFFF: Applications for Fractionating and Characterizing Submicrometer Particulate Matter in River Water. <i>Journal of Chromatographic Science</i> , 1992, 30, 217-227.	1.4	8
81	Geometric characterization of straight-chain perfluorohexylpropyl adsorbents for high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2013, 1286, 47-54.	3.7	8
82	A campus sustainability initiative: Indoor air quality monitoring in classrooms. , 2015, , .		8
83	Microscopic models of liquid chromatography: From ensemble-averaged information to resolution of fundamental viewpoint at single-molecule level. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 81, 63-68.	11.4	8
84	Detailed Investigation of Thermal Regeneration of High-Silica ZSM-5 Zeolite through <i>in Situ</i> Synchrotron X-ray Powder Diffraction and Adsorption Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17958-17968.	3.1	8
85	Evaluation for the Removal Efficiency of VOCs and Heavy Metals by Zeolites-Based Materials in the Wastewater: A Case Study in the Tito Scalo Industrial Area. <i>Processes</i> , 2020, 8, 1519.	2.8	8
86	Simulation of fractograms of fat emulsions in power-programmed sedimentation field-flow fractionation (SdFFF). <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 1995, 13, 869-877.	2.8	7
87	Programmed Field Decay Thermal Field Flow Fractionation of Polymers: A Calibration Method. <i>Analytical Chemistry</i> , 2004, 76, 6665-6680.	6.5	7
88	Selective adsorption of toluene and n-hexane binary mixture from aqueous solution on zeolite ZSM-5: Evaluation of competitive behavior between aliphatic and aromatic compounds. <i>Catalysis Today</i> , 2020, 345, 157-164.	4.4	7
89	Precision in differential field-flow fractionation: A chemometric study. <i>Journal of Separation Science</i> , 2007, 30, 2760-2779.	2.5	6
90	Kinetic study of niobium and tantalum hexameric forms and their substituted ions by capillary electrophoresis in alkaline medium. <i>Talanta</i> , 2017, 175, 127-134.	5.5	6

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91	Determination of calibration function in thermal field flow fractionation under thermal field programming. <i>Journal of Separation Science</i> , 2006, 29, 1088-1101.	2.5	5
92	A green and fast chromatographic method for determining organic compound mobility in soils. <i>Journal of Chromatography A</i> , 2009, 1216, 6802-6809.	3.7	5
93	Automated instrumental method for on-line fraction analysis and peak deconvolution in gradient multicomponent overloaded high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 4919-4924.	3.7	5
94	Insights into Adsorption of Chlorobenzene in High Silica MFI and FAU Zeolites Gained from Chromatographic and Diffractometric Techniques. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 80.	2.0	5
95	Modular stand-alone photoelectrocatalytic reactor for emergent contaminant degradation via solar radiation. <i>Solar Energy</i> , 2021, 228, 120-127.	6.1	5
96	GC/MS Analysis of Pesticides in the Ferrara Area (Italy) Surface Water: A Chemometric Study.. <i>Annali Di Chimica</i> , 2007, 97, 359-372.	0.6	4
97	Thermodynamic Insights into the Separation of Carotenoids in Reversed-Phase Liquid Chromatography. <i>International Journal of Analytical Chemistry</i> , 2019, 2019, 1-7.	1.0	4
98	L ^α -Lysine Amino Acid Adsorption on Zeolite L: a Combined Synchrotron, X ^α -Ray and Neutron Diffraction Study. <i>ChemistryOpen</i> , 2020, 9, 978-982.	1.9	4
99	Highlighting the capability of zeolites for agro-chemicals contaminants removal from aqueous matrix: Evidence of 2-ethyl-6-methylaniline adsorption on ZSM-12. <i>American Mineralogist</i> , 2019, 104, 317-324.	1.9	3
100	Organic Guests within a Ferroelastic Host: The Case of High Silica Zeolite ZSM-5. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7249-7259.	3.1	2
101	Insights on Ga-zeolite catalysts: X-ray powder diffraction and absorption spectroscopy characterization at ambient conditions. <i>Catalysis Today</i> , 2020, 345, 147-156.	4.4	2
102	Influence of caffeic acid on the adsorption of toluene onto an organophilic zeolite. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104229.	6.7	2
103	Supramolecular assembly of L-Lysine on ZSM-5 zeolites with different Si/Al ratio. <i>Microporous and Mesoporous Materials</i> , 2021, 323, 111183.	4.4	2
104	Modern sample preparation approaches for small metabolite elucidation to support biomedical research. <i>Advances in Sample Preparation</i> , 2022, 2, 100017.	3.0	2
105	Benefits of a Mixed-Mode Stationary Phase to Address the Challenging Purification of an Industrially Relevant Peptide: A Proof-of-Concept Study. <i>Separations</i> , 2022, 9, 125.	2.4	1
106	Field-Flow Fractionation. <i>Chromatographic Science</i> , 2010, , 329-359.	0.1	0
107	New Trends in Chiral High-Performance Liquid Chromatography-Tandem Mass Spectrometry. <i>Comprehensive Analytical Chemistry</i> , 2018, 79, 53-79.	1.3	0
108	PARTICLE SIZE SEPARATION Field Flow Fractionation: Polymer and Particles Separations. , 2007, , 1-13.		0

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109	Recent Developments and Applications in Nonlinear Reversed Phase Liquid Chromatography. <i>Advances in Chromatography</i> , 2012, 50, 415-440.	1.0	0
110	Emerging Contaminants Mineralization by a Photo-Electrochemical Method Based on WO ₃ . <i>Lecture Notes in Civil Engineering</i> , 2017, , 337-342.	0.4	0