

# Martina Catani

## List of Publications by Year in descending order

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44  
papers

1,029  
citations

361413

20  
h-index

454955

30  
g-index

44  
all docs

44  
docs citations

44  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Sustainability in peptide chemistry: current synthesis and purification technologies and future challenges. <i>Green Chemistry</i> , 2022, 24, 975-1020.	9.0	57
4	Rationale behind the optimum efficiency of columns packed with new 1.9 $\mu$ m fully porous particles of narrow particle size distribution. <i>Journal of Chromatography A</i> , 2016, 1454, 78-85.	3.7	49
5	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
6	Future perspectives in high efficient and ultrafast chiral liquid chromatography through zwitterionic teicoplanin-based 2.1 $\mu$ m superficially porous particles. <i>Journal of Chromatography A</i> , 2017, 1520, 91-102.	3.7	40
7	Multi-biomarker investigation to assess toxicity induced by two antidepressants on <i>Dreissena polymorpha</i> . <i>Science of the Total Environment</i> , 2017, 578, 452-459.	8.0	38
8	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
9	Experimental evidence of the kinetic performance achievable with columns packed with new 1.9 $\mu$ m fully porous particles of narrow particle size distribution. <i>Journal of Chromatography A</i> , 2016, 1454, 86-92.	3.7	33
10	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
11	Direct analysis of chiral active pharmaceutical ingredients and their counterions by ultra high performance liquid chromatography with macrocyclic glycopeptide-based chiral stationary phases. <i>Journal of Chromatography A</i> , 2018, 1576, 42-50.	3.7	32
12	Oligonucleotides: Current Trends and Innovative Applications in the Synthesis, Characterization, and Purification. <i>Biotechnology Journal</i> , 2020, 15, e1900226.	3.5	32
13	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
14	Modern trends in downstream processing of biotherapeutics through continuous chromatography: The potential of Multicolumn Countercurrent Solvent Gradient Purification. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 132, 116051.	11.4	29
15	Recent applications of mass spectrometry for the characterization of cannabis and hemp phytocannabinoids: From targeted to untargeted analysis. <i>Journal of Chromatography A</i> , 2021, 1655, 462492.	3.7	29
16	Downstream Processing of Therapeutic Peptides by Means of Preparative Liquid Chromatography. <i>Molecules</i> , 2021, 26, 4688.	3.8	28
17	The correctness of van Deemter Hoff plots in chiral and achiral chromatography. <i>Journal of Chromatography A</i> , 2020, 1611, 460594.	3.7	27
18	A theoretical study on the advantage of core-shell particles with radially-oriented mesopores. <i>Journal of Chromatography A</i> , 2016, 1456, 137-144.	3.7	26

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19	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
20	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
21	Exploring Fluorous Affinity by Liquid Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 6854-6860.	6.5	21
22	High-throughput enantioseparation of N-fluorenylmethoxycarbonyl proteinogenic amino acids through fast chiral chromatography on zwitterionic-teicoplanin stationary phases. <i>Journal of Chromatography A</i> , 2020, 1624, 461235.	3.7	21
23	Shedding light on mechanisms leading to convex-upward van Deemter curves on a cellulose tris(4-chloro-3-methylphenylcarbamate)-based chiral stationary phase. <i>Journal of Chromatography A</i> , 2020, 1630, 461532.	3.7	20
24	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
25	From batch to continuous chromatographic purification of a therapeutic peptide through multicolumn countercurrent solvent gradient purification. <i>Journal of Chromatography A</i> , 2020, 1625, 461304.	3.7	19
26	Potency testing of cannabinoids by liquid and supercritical fluid chromatography: Where we are, what we need. <i>Journal of Chromatography A</i> , 2021, 1651, 462304.	3.7	17
27	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
28	New insights into perfluorinated adsorbents for analytical and bioanalytical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 17-21.	3.7	15
29	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
30	Continuous production of eugenol esters using enzymatic packed-bed microreactors and an evaluation of the products as antifungal agents. <i>Flavour and Fragrance Journal</i> , 2019, 34, 201-210.	2.6	14
31	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
32	Investigation of mass transfer properties and kinetic performance of high-efficiency columns packed with $C_{18}$ fully and superficially porous particles. <i>Journal of Separation Science</i> , 2020, 43, 1737-1745.	2.5	13
33	Process Intensification for the Purification of Peptidomimetics: The Case of Icatibant through Multicolumn Countercurrent Solvent Gradient Purification (MCSGP). <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 6826-6834.	3.7	13
34	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
35	Investigation of retention behavior of natural cannabinoids on differently substituted polysaccharide-based chiral stationary phases under reversed-phase liquid chromatographic conditions. <i>Journal of Chromatography A</i> , 2022, 1672, 463076.	3.7	11
36	Enantioselectivity in Phenylacetyl Carbinol Synthesis Using the Wild-Type Enzyme Acetoin:Dichlorophenolindophenol Oxidoreductase from <i>Bacillus licheniformis</i> . <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 2767-2776.	4.3	9

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37	Investigating the effect of polarity of stationary and mobile phases on retention of cannabinoids in normal phase liquid chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5385-5395.	3.7	9
38	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
39	Profiling and quantitative analysis of underivatized fatty acids in <i>Chlorella vulgaris</i> microalgae by liquid chromatography-high resolution mass spectrometry. <i>Journal of Separation Science</i> , 2021, 44, 3041-3051.	2.5	6
40	Boosting the enantioresolution of zwitterionic-teicoplanin chiral stationary phases by moving to wide-pore core-shell particles. <i>Journal of Chromatography A</i> , 2022, 1676, 463190.	3.7	6
41	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
42	Boosting basic-peptide separation through dynamic electrostatic-repulsion reversed-phase (d-ERRP) liquid chromatography. <i>RSC Advances</i> , 2020, 10, 12604-12610.	3.6	4
43	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
44	Application of Multicolumn Countercurrent Solvent Gradient Purification to the polishing of therapeutic proteins. <i>Advances in Chemical Engineering</i> , 2022, , .	0.9	0