

Muhammad Imran Malik

List of Publications by Year in descending order

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77
papers

1,443
citations

257450

24
h-index

395702

33
g-index

81
all docs

81
docs citations

81
times ranked

1135
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent Applications of Molecularly Imprinted Polymers in Analytical Chemistry. Separation and Purification Reviews, 2019, 48, 179-219.	5.5	72
2	Salicylaldehyde derivative of nano-chitosan as an efficient adsorbent for lead(II), copper(II), and cadmium(II) ions. International Journal of Biological Macromolecules, 2020, 147, 643-652.	7.5	65
3	Recent Advances in High-Temperature Fractionation of Polyolefins. Advances in Polymer Science, 2012, , 77-140.	0.8	62
4	Field-flow fractionation: New and exciting perspectives in polymer analysis. Progress in Polymer Science, 2016, 63, 42-85.	24.7	61
5	Novel developments in the multidimensional characterization of segmented copolymers. Progress in Polymer Science, 2014, 39, 87-123.	24.7	50
6	Synthesis and characterization of poly(3-hexylthiophene): improvement of regioregularity and energy band gap. RSC Advances, 2018, 8, 8319-8328.	3.6	48
7	Selectivity of PEO- <i>b</i> -PPO Diblock Copolymers in the Microwave-Accelerated, Anionic Ring-Opening Polymerization of Propylene Oxide with PEG as Initiator. Macromolecular Chemistry and Physics, 2007, 208, 2510-2524.	2.2	39
8	Microwave assisted synthesis and characterization of end functionalized poly(propylene oxide) as model compounds. European Polymer Journal, 2008, 44, 144-154.	5.4	36
9	Polystyrene-block-poly(2-vinylpyridine)-conjugated silver nanoparticles as colorimetric sensor for quantitative determination of Cartap in aqueous media and blood plasma. Sensors and Actuators B: Chemical, 2018, 259, 878-887.	7.8	35
10	Liquid chromatography under critical conditions: Practical applications in the analysis of amphiphilic polymers. Analytical and Bioanalytical Chemistry, 2009, 393, 1797-1804.	3.7	34
11	Characterization of ethylene oxide- <i>b</i> -propylene oxide block copolymers by combination of different chromatographic techniques and matrix-assisted laser desorption ionization time-of-flight mass spectroscopy. Journal of Chromatography A, 2009, 1216, 6627-6635.	3.7	34
12	Characterization of polyoxyalkylene block copolymers by combination of different chromatographic techniques and MALDI-TOF-MS. Analytica Chimica Acta, 2010, 658, 217-224.	5.4	34
13	Two-dimensional liquid chromatography of polystyrene- <i>b</i> -polyethylene oxide block copolymers. Journal of Chromatography A, 2012, 1244, 77-87.	3.7	30
14	Microwave-assisted polymerization of higher alkylene oxides. European Polymer Journal, 2009, 45, 899-910.	5.4	29
15	Synthesis and characterization of 4-arm star-shaped amphiphilic block copolymers consisting of poly(ethylene oxide) and poly(μ -caprolactone). RSC Advances, 2018, 8, 28569-28580.	3.6	29
16	Design and synthesis of mixed micellar system for enhanced anticancer efficacy of Paclitaxel through its co-delivery with Naringin. Drug Development and Industrial Pharmacy, 2019, 45, 703-714.	2.0	29
17	Liquid chromatography at critical conditions in ternary mobile phases: Gradient elution along the critical line. Journal of Separation Science, 2010, 33, 2052-2059.	2.5	28
18	Amphiphilic polymers based on higher alkylene oxides. Journal of Chromatography A, 2009, 1216, 1167-1173.	3.7	26

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19	Synthesis, antimicrobial, antioxidant, cytotoxic, antiurease and molecular docking studies of N-(3-trifluoromethyl)benzoyl-N ² -aryl thiourea derivatives. <i>Bioorganic Chemistry</i> , 2019, 88, 102946.	4.1	26
20	Green synthesis of methyl gallate conjugated silver nanoparticles: a colorimetric probe for gentamicin. <i>New Journal of Chemistry</i> , 2019, 43, 1972-1979.	2.8	26
21	Characterization of Polydimethylsiloxane- <i>b</i> -polystyrene (PDMS- <i>b</i> -PS) Copolymers by Liquid Chromatography at Critical Conditions. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 1221-1228.	2.2	25
22	Two-dimensional liquid chromatography of PDMS- <i>b</i> -PS block copolymers. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 601-611.	3.7	25
23	Advanced Separation Techniques for Polyolefins. Springer Laboratory, 2014, .	0.2	25
24	N-Alkylated 1,4-Diazabicyclo[2.2.2]octane-Polyethylene Glycol Melt as Deep Eutectic Solvent for the Synthesis of Fisher Indoles and 1-H-Tetrazoles. <i>ACS Omega</i> , 2017, 2, 2891-2900.	3.5	25
25	Star-shaped poly(ethylene oxide)- <i>b</i> -poly(caprolactone) conjugated silver nanoparticles: A colorimetric probe for cephalexin in environmental, biological and pharmaceutical samples. <i>Microchemical Journal</i> , 2019, 149, 104048.	4.5	25
26	Comprehensive two-dimensional liquid chromatographic analysis of poloxamers. <i>Journal of Chromatography A</i> , 2016, 1442, 33-41.	3.7	24
27	Ring-opening polymerization of ethylene carbonate: comprehensive structural elucidation by 1D & 2D-NMR techniques, and selectivity analysis. <i>RSC Advances</i> , 2017, 7, 11786-11795.	3.6	23
28	Monofunctional polymers in liquid adsorption chromatography. <i>Journal of Chromatography A</i> , 2008, 1207, 122-129.	3.7	22
29	Solvent-free click chemistry for tetrazole synthesis from 1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)-Based fluorinated ionic liquids, their micellization, and density functional theory studies. <i>RSC Advances</i> , 2014, 4, 64128-64137.	3.6	20
30	Synthesis and meticulous molecular, morphological and thermal characterization of linear and star-shaped polycaprolactones. <i>RSC Advances</i> , 2016, 6, 98117-98127.	3.6	20
31	Full separation of oligomers in block copolymers of ethylene oxide and propylene oxide. <i>Journal of Separation Science</i> , 2009, 32, 1771-1781.	2.5	18
32	Evaluation of morphology, aggregation pattern and size-dependent drug-loading efficiency of gold nanoparticles stabilised with poly(2-vinyl pyridine). <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	1.9	18
33	Enhanced electrochemical response of a modified glassy carbon electrode by poly(2-vinylpyridine- <i>b</i> -methyl methacrylate) conjugated gold nanoparticles for detection of nicotine. <i>RSC Advances</i> , 2018, 8, 35776-35786.	3.6	18
34	A data base for polymer chromatography: Dependence of interaction parameters on mobile phase composition. <i>Analytica Chimica Acta</i> , 2007, 604, 39-44.	5.4	17
35	Characterization of poly(2-vinylpyridine)-block-poly(methyl methacrylate) copolymers and blends of their homopolymers by liquid chromatography at critical conditions. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6311-6317.	3.7	17
36	A rapid and efficient CsF catalyzed tandem Knoevenagel-Michael reaction. <i>Journal of Fluorine Chemistry</i> , 2014, 158, 1-5.	1.7	17

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37	Poly(propylene glycol) stabilized gold nanoparticles: An efficient colorimetric assay for ceftriaxone. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 87, 180-186.	5.8	17
38	Molecular imprinting-based extraction of rosmarinic acid from <i>Salvia hypoleuca</i> extract. <i>Reactive and Functional Polymers</i> , 2021, 166, 104984.	4.1	17
39	Enhanced therapeutic efficacy of clotrimazole by delivery through poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 T 47769.	2.6	16
40	Chromatographic characterization of amphiphilic di- and tri-block copolymers of poly(ethylene oxide) and poly(μ -caprolactone). <i>Journal of Separation Science</i> , 2018, 41, 3352-3359.	2.5	15
41	Basic principles of size exclusion and liquid interaction chromatography of polymers. , 2021, , 1-59.		15
42	Ring-opening polymerization of propylene carbonate: Microstructural analysis of the polymer and selectivity of polymerization by 2D-NMR techniques. <i>European Polymer Journal</i> , 2018, 105, 95-106.	5.4	14
43	A Novel and Efficient Colorimetric Assay for Quantitative Determination of Amlodipine in Environmental, Biological and Pharmaceutical Samples. <i>ChemistrySelect</i> , 2019, 4, 10046-10053.	1.5	14
44	Convenient pH-responsive removal of Acid Black 1 by green <sc> </sc>-histidine/iron oxide magnetic nanoadsorbent from water: performance and mechanistic studies. <i>RSC Advances</i> , 2019, 9, 2978-2996.	3.6	14
45	Architecture based selectivity of Amphiphilic block copolymers of poly(ethylene oxide) and poly(μ -caprolactone) for drug delivery. <i>Reactive and Functional Polymers</i> , 2020, 150, 104553.	4.1	14
46	Analysis of individual block length of amphiphilic di- & tri-block copolymers containing poly(ethylene oxide) and poly(methyl methacrylate). <i>RSC Advances</i> , 2017, 7, 41693-41704.	3.6	13
47	Critical parameters of liquid chromatography at critical conditions in context of poloxamers: Pore diameter, mobile phase composition, temperature and gradients. <i>Journal of Chromatography A</i> , 2020, 1609, 460440.	3.7	13
48	Characterization of Polystyrene- <i>i>block</i>-Poly(2-vinyl pyridine) Copolymers and Blends of Their Homopolymers by Liquid Chromatography at Critical Conditions. <i>Macromolecules</i>, 2019, 52, 7688-7695.</i>	4.8	12
49	Calixarene coated gold nanoparticles as a novel therapeutic agent. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3988-3996.	4.9	12
50	Colorimetric sensing of cephradine through polypropylene glycol functionalized gold nanoparticles. <i>Royal Society Open Science</i> , 2021, 8, 210185.	2.4	12
51	Synthesis and Characterization of Novel Biodegradable Di- and Tri-Block Copolymers Based on Ethylene Carbonate Polymer as Hydrophobic Segment. <i>Journal of Polymer Science Part A</i> , 2017, 55, 1887-1893.	2.3	10
52	Concurrent ring-opening and atom transfer radical polymerization for synthesis of block copolymers, and their comprehensive chromatographic characterization. <i>European Polymer Journal</i> , 2021, 142, 110161.	5.4	9
53	Selective and efficient extraction of cationic dyes from industrial effluents through polymer inclusion membrane. <i>Separation and Purification Technology</i> , 2021, 272, 118883.	7.9	9
54	Detection of lard contamination in five different edible oils by FT-IR spectroscopy using a partial least squares calibration model. <i>Turkish Journal of Chemistry</i> , 2019, 43, 1098-1108.	1.2	8

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55	Recent Trends in Fast Liquid Chromatography for Pharmaceutical Analysis. <i>Current Analytical Chemistry</i> , 2019, 15, 349-372.	1.2	8
56	Characterization of polyolefins. , 2021, , 173-222.		7
57	Liquid Chromatography at Critical Conditions in Polymer Analysis: A Perspective. <i>Chromatographia</i> , 2021, 84, 1089-1094.	1.3	7
58	Self-Assembly and Structural Analysis of Multiblock Poly(oxyalkylene) Copolymers. <i>Macromolecules</i> , 2010, 43, 7868-7871.	4.8	6
59	Visible-Light Driven Photodegradation of Industrial Pollutants Using Nitrogen-Tungsten Co-Doped Nanocrystalline TiO ₂ : Spectroscopic Analysis of Degradation Reaction Path. <i>Nanomaterials</i> , 2022, 12, 2246.	4.1	6
60	Characterization of Polystyrene- <i>b</i> -Polyethylene Oxide Diblock Copolymers and Blends of Homopolymers by Liquid Chromatography at Critical Conditions (LCCC). <i>Macromolecular Symposia</i> , 2012, 313-314, 162-169.	0.7	5
61	Alkylene oxide polymerizations: identification of side reactions and by-products. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	5
62	Poly(propylene ether carbonate)-Based Di- and Tri-Block Copolymers: Synthesis and Chromatographic Characterization. <i>Macromolecular Research</i> , 2019, 27, 911-918.	2.4	5
63	The selectivity of poly(2-vinylpyridine- <i>b</i> -methyl methacrylate) copolymer films: an AFM study. <i>RSC Advances</i> , 2019, 9, 16455-16466.	3.6	4
64	Sonochemical synthesis of Co ₃ O ₄ nanoparticles deposited on GO sheets and their potential application as a nanofiller in MMMs for O ₂ /N ₂ separation. <i>RSC Advances</i> , 2021, 11, 19647-19655.	3.6	4
65	Molecular tailoring of donor and acceptor materials of organic solar cells for improvement of their optoelectronic properties. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106919.	4.0	4
66	Separation of telechelic oligomers according to architecture by liquid chromatography. <i>Journal of Chromatography A</i> , 2013, 1314, 180-187.	3.7	3
67	Acridine- <i>π</i> -thiosemicarbazones- <i>σ</i> -stabilized Silver Nanoparticles as a Selective Sensor for Copper(II) in Tap Water. <i>ChemistrySelect</i> , 2019, 4, 8757-8763.	1.5	3
68	Enhanced Anti-Bacterial Activity of Non-Antibacterial Drug Candesartan Cilixetil by Delivery through Polymeric Micelles. <i>ChemistrySelect</i> , 2020, 5, 3605-3612.	1.5	3
69	Morphological selectivity of the films of linear and star-shaped poly(ϵ -caprolactone). <i>Journal of Materials Science</i> , 2021, 56, 7334-7347.	3.7	2
70	Crystallization-Based Fractionation Techniques. Springer Laboratory, 2014, , 11-73.	0.2	2
71	Field-Flow Fractionation. Springer Laboratory, 2014, , 147-172.	0.2	2
72	Enhancement in the antibacterial activity of cephalexin by its delivery through star-shaped poly(ϵ -caprolactone)-block-poly(ethylene oxide) coated silver nanoparticles. <i>Royal Society Open Science</i> , 2020, 7, 201097.	2.4	1

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73	Microscopy of polymers. , 2021, , 587-637.		0
74	Column-Based Chromatographic Techniques. Springer Laboratory, 2014, , 75-145.	0.2	0
75	Analytical Polymer Science. Journal of Analytical Bioanalytical and Separation Techniques, 2016, 1, 1-2.	0.1	0
76	Fabrication of inverted organic solar cells on stainless steel substrate with electrodeposited and spin coated ZnO buffer layers. Journal of Polymer Engineering, 2022, .	1.4	0
77	Acridine-2,4-Dinitrophenyl Hydrazone Conjugated Silver Nanoparticles as an Efficient Sensor for Quantification of Mercury in Tap Water. Journal of Chemistry, 2022, 2022, 1-12.	1.9	0