Muhammad Imran Malik

List of Publications by Year
in descending order

77	1,443	257450 24	395702 33
papers	citations	h-index	g-index

81	81	81	1135
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	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
3	Visible-Light Driven Photodegradation of Industrial Pollutants Using Nitrogen-Tungsten Co-Doped Nanocrystalline TiO2: Spectroscopic Analysis of Degradation Reaction Path. Nanomaterials, 2022, 12, 2246.	4.1	6
4	Molecular tailoring of donor and acceptor materials of organic solar cells for improvement of their optoelectronic properties. Materials Science in Semiconductor Processing, 2022, 150, 106919.	4.0	4
5	Concurrent ring-opening and atom transfer radical polymerization for synthesis of block copolymers, and their comprehensive chromatographic characterization. European Polymer Journal, 2021, 142, 110161.	5.4	9
6	Basic principles of size exclusion and liquid interaction chromatography of polymers. , 2021, , 1-59.		15
7	Characterization of polyolefins. , 2021, , 173-222.		7
8	Microscopy of polymers. , 2021, , 587-637.		0
9	Sonochemical synthesis of Co₃O₄nanoparticles deposited on GO sheets and their potential application as a nanofiller in MMMs for O₂/N₂separation. RSC Advances, 2021, 11, 19647-19655.	3.6	4
10	Morphological selectivity of the films of linear and star-shaped poly (Îµ-caprolactone). Journal of Materials Science, 2021, 56, 7334-7347.	3.7	2
11	Colorimetric sensing of cephradine through polypropylene glycol functionalized gold nanoparticles. Royal Society Open Science, 2021, 8, 210185.	2.4	12
12	Molecular imprinting-based extraction of rosmarinic acid from Salvia hypoleuca extract. Reactive and Functional Polymers, 2021, 166, 104984.	4.1	17
13	Selective and efficient extraction of cationic dyes from industrial effluents through polymer inclusion membrane. Separation and Purification Technology, 2021, 272, 118883.	7.9	9
14	Liquid Chromatography at Critical Conditions in Polymer Analysis: A Perspective. Chromatographia, 2021, 84, 1089-1094.	1.3	7
15	Calixarene coated gold nanoparticles as a novel therapeutic agent. Arabian Journal of Chemistry, 2020, 13, 3988-3996.	4.9	12
16	Critical parameters of liquid chromatography at critical conditions in context of poloxamers: Pore diameter, mobile phase composition, temperature and gradients. Journal of Chromatography A, 2020, 1609, 460440.	3.7	13
17	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
18	Enhancement in the antibacterial activity of cephalexin by its delivery through star-shaped poly(Îµ-caprolactone)-block-poly(ethylene oxide) coated silver nanoparticles. Royal Society Open Science, 2020, 7, 201097.	2.4	1

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19	Enhanced Antiâ€Bacterial Activity of Nonâ€Antibacterial Drug Candesartan Cilexetil by Delivery through Polymeric Micelles. ChemistrySelect, 2020, 5, 3605-3612.	1.5	3
20	Architecture based selectivity of Amphiphilic block copolymers of poly(ethylene oxide) and poly(Îµ-caprolactone) for drug delivery. Reactive and Functional Polymers, 2020, 150, 104553.	4.1	14
21	Poly(propylene glycol) stabilized gold nanoparticles: An efficient colorimetric assay for ceftriaxone. Journal of Industrial and Engineering Chemistry, 2020, 87, 180-186.	5.8	17
22	Acridineâ€Thiosemicarbazonesâ€Stabilized Silver Nanoparticles as a Selective Sensor for Copper(II)â€Ion in Tap Water. ChemistrySelect, 2019, 4, 8757-8763.	1.5	3
23	Detection of lard contamination in five different edible oils by FT-IRspectroscopy using a partial least squares calibration model. Turkish Journal of Chemistry, 2019, 43, 1098-1108.	1.2	8
24	The selectivity of poly(2-vinylpyridine-block-methyl methacrylate) copolymer films: an AFM study. RSC Advances, 2019, 9, 16455-16466.	3.6	4
25	Star-shaped poly(ethylene oxide)â€blockâ€poly(caprolactone) conjugated silver nanoparticles: A colorimetric probe for cephalexin in environmental, biological and pharmaceutical samples. Microchemical Journal, 2019, 149, 104048.	4.5	25
26	A Novel and Efficient Colorimetric Assay for Quantitative Determination of Amlodipine in Environmental, Biological and Pharmaceutical Samples. ChemistrySelect, 2019, 4, 10046-10053.	1.5	14
27	Characterization of Polystyrene-block-Poly(2-vinyl pyridine) Copolymers and Blends of Their Homopolymers by Liquid Chromatography at Critical Conditions. Macromolecules, 2019, 52, 7688-7695.	4.8	12
28	Convenient pH-responsive removal of Acid Black 1 by green <scp>l</scp>-histidine/iron oxide magnetic nanoadsorbent from water: performance and mechanistic studies. RSC Advances, 2019, 9, 2978-2996.	3.6	14
29	Poly(propylene ether carbonate)-Based Di- and Tri-Block Copolymers: Synthesis and Chromatographic Characterization. Macromolecular Research, 2019, 27, 911-918.	2.4	5
30	Synthesis, antimicrobial, antioxidant, cytotoxic, antiurease and molecular docking studies of N-(3-trifluoromethyl)benzoyl-Nâ€²-aryl thiourea derivatives. Bioorganic Chemistry, 2019, 88, 102946.	4.1	26
31	Enhanced therapeutic efficacy of clotrimazole by delivery through poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 T 47769.	2.6	16
32	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
33	Green synthesis of methyl gallate conjugated silver nanoparticles: a colorimetric probe for gentamicin. New Journal of Chemistry, 2019, 43, 1972-1979.	2.8	26
34	Recent Applications of Molecularly Imprinted Polymers in Analytical Chemistry. Separation and Purification Reviews, 2019, 48, 179-219.	5.5	72
35	Recent Trends in Fast Liquid Chromatography for Pharmaceutical Analysis. Current Analytical Chemistry, 2019, 15, 349-372.	1.2	8
36	Synthesis and characterization of poly(3-hexylthiophene): improvement of regioregularity and energy band gap. RSC Advances, 2018, 8, 8319-8328.	3.6	48

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37	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
38	Enhanced electrochemical response of a modified glassy carbon electrode by poly(2-vinlypyridine-b-methyl methacrylate) conjugated gold nanoparticles for detection of nicotine. RSC Advances, 2018, 8, 35776-35786.	3.6	18
39	Synthesis and characterization of 4-arm star-shaped amphiphilic block copolymers consisting of poly(ethylene oxide) and poly(Îµ-caprolactone). RSC Advances, 2018, 8, 28569-28580.	3.6	29
40	Ring-opening polymerization of propylene carbonate: Microstructural analysis of the polymer and selectivity of polymerization by 2D-NMR techniques. European Polymer Journal, 2018, 105, 95-106.	5.4	14
41	Chromatographic characterization of amphiphilic diâ€•and triâ€block copolymers of poly(ethylene oxide) and poly(Îµâ€•caprolactone). Journal of Separation Science, 2018, 41, 3352-3359.	2.5	15
42	Ring-opening polymerization of ethylene carbonate: comprehensive structural elucidation by 1D & 2D-NMR techniques, and selectivity analysis. RSC Advances, 2017, 7, 11786-11795.	3.6	23
43	Synthesis and Characterization of Novel Biodegradable Diâ€•and Triâ€Block Copolymers Based on Ethylene Carbonate Polymer as Hydrophobic Segment. Journal of Polymer Science Part A, 2017, 55, 1887-1893.	2.3	10
44	N-Alkylated 1,4-Diazabicyclo[2.2.2]octaneâ€“Polyethylene Glycol Melt as Deep Eutectic Solvent for the Synthesis of Fisher Indoles and 1H-Tetrazoles. ACS Omega, 2017, 2, 2891-2900.	3.5	25
45	Analysis of individual block length of amphiphilic di- & tri-block copolymers containing poly(ethylene oxide) and poly(methyl methacrylate). RSC Advances, 2017, 7, 41693-41704.	3.6	13
46	Evaluation of morphology, aggregation pattern and size-dependent drug-loading efficiency of gold nanoparticles stabilised with poly (2-vinyl pyridine). Journal of Nanoparticle Research, 2017, 19, 1.	1.9	18
47	Alkylene oxide poylmerizations: identification of side reactions and by-products. Journal of Polymer Research, 2016, 23, 1.	2.4	5
48	Field-flow fractionation: New and exciting perspectives in polymer analysis. Progress in Polymer Science, 2016, 63, 42-85.	24.7	61
49	Synthesis and meticulous molecular, morphological and thermal characterization of linear and star-shaped polycaprolactones. RSC Advances, 2016, 6, 98117-98127.	3.6	20
50	Comprehensive two-dimensional liquid chromatographic analysis of poloxamers. Journal of Chromatography A, 2016, 1442, 33-41.	3.7	24
51	Analytical Polymer Science. Journal of Analytical Bioanalytical and Separation Techniques, 2016, 1, 1-2.	0.1	0
52	Advanced Separation Techniques for Polyolefins. Springer Laboratory, 2014, , .	0.2	25
53	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. RSC Advances, 2014, 4, 64128-64137.	3.6	20
54	Novel developments in the multidimensional characterization of segmented copolymers. Progress in Polymer Science, 2014, 39, 87-123.	24.7	50

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55	Characterization of poly(2-vinylpyridine)-block-poly(methyl methacrylate) copolymers and blends of their homopolymers by liquid chromatography at critical conditions. Analytical and Bioanalytical Chemistry, 2014, 406, 6311-6317.	3.7	17
56	A rapid and efficient CsF catalyzed tandem Knoevenagelâ€“Michael reaction. Journal of Fluorine Chemistry, 2014, 158, 1-5.	1.7	17
57	Crystallization-Based Fractionation Techniques. Springer Laboratory, 2014, , 11-73.	0.2	2
58	Field-Flow Fractionation. Springer Laboratory, 2014, , 147-172.	0.2	2
59	Column-Based Chromatographic Techniques. Springer Laboratory, 2014, , 75-145.	0.2	0
60	Separation of telechelic oligomers according to architecture by liquid chromatography. Journal of Chromatography A, 2013, 1314, 180-187.	3.7	3
61	Characterization of Polystyreneâ€blockâ€Polyethylene Oxide Diblock Copolymers and Blends of Homopolymers by Liquid Chromatography at Critical Conditions (LCCC). Macromolecular Symposia, 2012, 313-314, 162-169.	0.7	5
62	Recent Advances in High-Temperature Fractionation of Polyolefins. Advances in Polymer Science, 2012, , 77-140.	0.8	62
63	Two-dimensional liquid chromatography of PDMSâ€“PS block copolymers. Analytical and Bioanalytical Chemistry, 2012, 403, 601-611.	3.7	25
64	Two-dimensional liquid chromatography of polystyreneâ€“polyethylene oxide block copolymers. Journal of Chromatography A, 2012, 1244, 77-87.	3.7	30
65	Characterization of Polydimethylsiloxaneâ€blockâ€polystyrene (PDMSâ€bâ€PS) Copolymers by Liquid Chromatography at Critical Conditions. Macromolecular Chemistry and Physics, 2011, 212, 1221-1228.	2.2	25
66	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
67	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
68	Self-Assembly and Structural Analysis of Multiblock Poly(oxyalkylene) Copolymers. Macromolecules, 2010, 43, 7868-7871.	4.8	6
69	Full separation of oligomers in block copolymers of ethylene oxide and propylene oxide. Journal of Separation Science, 2009, 32, 1771-1781.	2.5	18
70	Liquid chromatography under critical conditions: Practical applications in the analysis of amphiphilic polymers. Analytical and Bioanalytical Chemistry, 2009, 393, 1797-1804.	3.7	34
71	Amphiphilic polymers based on higher alkylene oxides. Journal of Chromatography A, 2009, 1216, 1167-1173.	3.7	26
72	Characterization of ethylene oxideâ€“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

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73	Microwave-assisted polymerization of higher alkylene oxides. European Polymer Journal, 2009, 45, 899-910.	5.4	29
74	Monofunctional polymers in liquid adsorption chromatography. Journal of Chromatography A, 2008, 1207, 122-129.	3.7	22
75	Microwave assisted synthesis and characterization of end functionalized poly(propylene oxide) as model compounds. European Polymer Journal, 2008, 44, 144-154.	5.4	36
76	Selectivity of PEOâ€blockâ€PPO Diblock Copolymers in the Microwaveâ€Accelerated, Anionic Ringâ€Opening Polymerization of Propylene Oxide with PEG as Initiator. Macromolecular Chemistry and Physics, 2007, 208, 2510-2524.	2.2	39
77	A data base for polymer chromatography: Dependence of interaction parameters on mobile phase composition. Analytica Chimica Acta, 2007, 604, 39-44.	5.4	17