Muhammad Zahid

List of Publications by Year
in descending order

130 papers	3,162 citations	136950 32 h-index	197818 49 g-index
135 all docs	135 docs citations	135 times ranked	2477 citing authors

#	Article	IF	Citations
1	Polyaniline-based nanocomposites for electromagnetic interference shielding applications: A review. Journal of Thermoplastic Composite Materials, 2023, 36, 1717-1761.	4.2	20
2	Applications of graphene-based tungsten oxide nanocomposites: a review. Journal of Nanostructure in Chemistry, 2023, 13, 167-196.	9.1	8
3	Electromagnetic interference shielding study in microwave and NIR regions by highly efficient Ag/ZnS and polyaniline-Ag/ZnS particles. Journal of Thermoplastic Composite Materials, 2023, 36, 1489-1503.	4.2	2
4	Enhanced photo-Fenton degradation of Rhodamine B using iodine-doped iron tungstate nanocomposite under sunlight. International Journal of Environmental Science and Technology, 2023, 20, 3645-3660.	3.5	11
5	Degradation of persistent organic pollutant using Ag-doped ZnO-ZnSâ€“polyaniline composite as photocatalyst. International Journal of Environmental Science and Technology, 2023, 20, 4811-4826.	3.5	3
6	Inter-annual variability and distribution of aerosols during winters and aerosol optical thickness over Northeastern Pakistan. International Journal of Environmental Science and Technology, 2022, 19, 875-888.	3.5	6
7	Improved photocatalytic degradation of dye using coal fly ash-based zinc ferrite (CFA/ZnFe2O4) composite. International Journal of Environmental Science and Technology, 2022, 19, 3045-3060.	3.5	30
8	Ultrasound-assisted deep eutectic solventâ€“based extraction of phytochemicals from Mentha arvensis: optimization using Box-Behnken design. Biomass Conversion and Biorefinery, 2022, 12, 35-45.	4.6	12
9	Influence of magnetohydrodynamics and heat transfer on the reverse roll coating of a Jeffrey fluid: A theoretical study. Journal of Plastic Film and Sheeting, 2022, 38, 72-104.	2.2	5
10	Fabrication of visible light active Mn-doped Bi2WO6-GO/MoS2 heterostructure for enhanced photocatalytic degradation of methylene blue. Environmental Science and Pollution Research, 2022, 29, 6552-6567.	5.3	22
11	Photocatalytic degradation of methylene blue using polyaniline-based silver-doped zinc sulfide (PANI-Ag/ZnS) composites. Environmental Science and Pollution Research, 2022, 29, 9203-9217.	5.3	24
12	Sonophotocatalytic degradation of organic pollutant under visible light over Pt decorated CeO2: Role of ultrasonic waves for unprecedented degradation. Journal of Molecular Structure, 2022, 1247, 131397.	3.6	18
13	G-C3N4/Ag@CoWO4: A novel sunlight active ternary nanocomposite for potential photocatalytic degradation of rhodamine B dye. Journal of Physics and Chemistry of Solids, 2022, 161, 110437.	4.0	34
14	Coal fly ash supported CoFe2O4 nanocomposites: Synergetic Fenton-like and photocatalytic degradation of methylene blue. Environmental Research, 2022, 206, 112280.	7.5	38
15	Recent developments in textile based polymeric smart sensor for human health monitoring: A review. Arabian Journal of Chemistry, 2022, 15, 103480.	4.9	25
16	Assessment of the metal contamination index in groundwater of the quaternary of the Middle Kert Basin, northâ€eastern Morocco. Environmental Quality Management, 2022, 32, 53-62.	1.9	7
17	Role of silver nanoparticles in fluorimetric determination of urea in urine samples. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 271, 120889.	3.9	4
18	Investigation of Ce doped BaTiO3 compound for optoelectronic devices. Physica B: Condensed Matter, 2022, 631, 413714.	2.7	8

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19	Preparation and Evaluation of Polymer-Based Ultrasound Gel and Its Application in Ultrasonography. Gels, 2022, 8, 42.	4.5	11
20	Physical characteristics of vanadium-doped SrTiO3 compound. European Physical Journal Plus, 2022, 137, 1.	2.6	7
21	Grass-derived carbon nanodots as a fluorescent-sensing platform for label-free detection of Cu (II) ions. Journal of Materials Science: Materials in Electronics, 2022, 33, 5626-5634.	2.2	7
22	Theoretical investigation of X2NaIO6 (X= Pb,Sr) double perovskites for thermoelectric and optoelectronic applications. Physica B: Condensed Matter, 2022, 630, 413694.	2.7	39
23	Preparation of Polyvinylidene Fluoride Nano-Filtration Membranes Modified with Functionalized Graphene Oxide for Textile Dye Removal. Membranes, 2022, 12, 224.	3.0	13
24	First principle insight on Mn doped BeTe compound for optoelectronic and spintronic applications. Physica Scripta, 2022, 97, 045702.	2.5	4
25	Eco-friendly elimination of organic pollutants from water using graphene oxide assimilated magnetic nanoparticles adsorbent. Inorganic Chemistry Communication, 2022, 139, 109422.	3.9	9
26	Electronic, optical and magnetic characteristics of V doped BeS. Physica Scripta, 2022, 97, 065807.	2.5	4
27	Quantum mechanical modeling unveils the effect of substitutions on the activation barriers of the Dielsâ€“Alder reactions of an antiviral compound 7H-benzo[a]phenalene. Structural Chemistry, 2022, 33, 1907-1920.	2.0	1
28	Physical characteristics of X2NaMoBr6 (X= K, Rb): A DFT study. Materials Science in Semiconductor Processing, 2022, 147, 106760.	4.0	23
29	A comprehensive review of template-assisted porous carbons: Modern preparation methods and advanced applications. Materials Science and Engineering Reports, 2022, 149, 100682.	31.8	57
30	The salinity origin and hydrogeochemical evolution of groundwater in the Oued Kert basin, northâ€eastern of Morocco. Scientific African, 2022, 16, e01226.	1.5	7
31	Physical properties of KTaO3 compound for optoelectronic and thermoelectric applications: A DFT study. Materials Science in Semiconductor Processing, 2022, 148, 106811.	4.0	9
32	The Design of Ternary Composite Polyurethane Membranes with an Enhanced Photocatalytic Degradation Potential for the Removal of Anionic Dyes. Membranes, 2022, 12, 630.	3.0	2
33	A Theoretical Study of Reverse Roll Coating for a Non-Isothermal Third-Grade Fluid under Lubrication Approximation Theory. Mathematical Problems in Engineering, 2022, 2022, 1-18.	1.1	3
34	Investigation of Ba2LnRuO6 (LnÂ=ÂNd, Er) for spin-optoelectronic and thermoelectric devices. Journal of Magnetism and Magnetic Materials, 2022, 560, 169657.	2.3	9
35	Green extraction of ethnomedicinal compounds from Cymbopogon citratus Stapf using hydrogen-bonded supramolecular network. Separation Science and Technology, 2021, 56, 1520-1533.	2.5	19
36	Analysis of the lubrication approximation theory in the calendering/sheeting process of upper convected Jefferyâ€™s material. Journal of Plastic Film and Sheeting, 2021, 37, 128-159.	2.2	5

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37	Use of hydrogen-bonded supramolecular eutectic solvents for eco-friendly extraction of bioactive molecules from Cymbopogon citratus using Boxâ€“Behnken design. Journal of Food Measurement and Characterization, 2021, 15, 1487-1498.	3.2	11
38	Cobaltâ€“Iron nanoparticles encapsulated in mesoporous carbon nanosheets: A one-pot synthesis of highly stable electrocatalysts for overall water splitting. International Journal of Hydrogen Energy, 2021, 46, 5234-5249.	7.1	35
39	Sunlight-driven photocatalytic degradation of rhodamine B dye by Ag/FeWO4/g-C3N4 composites. International Journal of Environmental Science and Technology, 2021, 18, 927-938.	3.5	47
40	Metal oxide-based ternary nanocomposites for wastewater treatment. , 2021, , 135-158.		3
41	Platinum and cobalt intermetallic nanoparticles confined within MIL-101(Cr) for enhanced selective hydrogenation of the carbonyl bond in Î±,Î²-unsaturated aldehydes: synergistic effects of electronically modified Pt sites and Lewis acid sites. Catalysis Science and Technology, 2021, 11, 2433-2445.	4.1	32
42	Role of polymeric nanocomposite membranes for the removal of textile dyes from wastewater. , 2021, , 91-103.		4
43	Nanotechnology: A smart translation of ingredients in the agriculture industry. , 2021, , 47-65.		0
44	Photocatalytic polymeric composites for wastewater treatment. , 2021, , 467-490.		4
45	Applications of nanomaterials in water remediation: A note from the Editors. , 2021, , 1-10.		3
46	Tuning the Nanoporous Structure of Carbons Derived from the Composite of Cross-Linked Polymers for Charge Storage Applications. ACS Applied Energy Materials, 2021, 4, 1763-1773.	5.1	13
47	Theoretical investigation of supramolecular hydrogen-bonded choline chloride-based deep eutectic solvents using density functional theory. Chemical Physics Letters, 2021, 769, 138427.	2.6	79
48	Thermodynamic and kinetic approach of biodiesel production from waste cooking oil using nano-catalysts. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1673-1688.	2.8	9
49	M-Type Barium Hexaferrite-Based Nanocomposites for EMI Shielding Application: a Review. Journal of Superconductivity and Novel Magnetism, 2021, 34, 1019-1045.	1.8	40
50	Fabrication and characterization of PVC based flexible nanocomposites for the shielding against EMI, NIR, and thermal imaging signals. Results in Physics, 2021, 24, 104183.	4.1	24
51	Bimetallic NiCoâ€“NiCoO2 nano-heterostructures embedded on copper foam as a self-supported bifunctional electrode for water oxidation and hydrogen production in alkaline media. International Journal of Hydrogen Energy, 2021, 46, 18936-18948.	7.1	35
52	Sustainable Development of Chitosan/Calotropis procera-Based Hydrogels to Stimulate Formation of Granulation Tissue and Angiogenesis in Wound Healing Applications. Molecules, 2021, 26, 3284.	3.8	14
53	First principle insight on physical characteristics of Mn doped BeS compound. Materials Science in Semiconductor Processing, 2021, 127, 105697.	4.0	14
54	Synthesis and photocatalytic degradation of rhodamine B using ternary zeolite/WO₃/Fe₃O₄ composite. Nanotechnology, 2021, 32, 345705.	2.6	24

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55	Fabrication and Characterization of Sulfonated Graphene Oxide-Doped Polymeric Membranes with Improved Anti-Biofouling Behavior. Membranes, 2021, 11, 563.	3.0	11
56	PVC based flexible nanocomposites with the incorporation of Polyaniline and Barium Hexa-Ferrite nanoparticles for the shielding against EMI, NIR, and thermal imaging cameras. Synthetic Metals, 2021, 277, 116773.	3.9	21
57	Investigating the Antibacterial Activity of Polymeric Membranes Fabricated with Aminated Graphene Oxide. Membranes, 2021, 11, 510.	3.0	22
58	Subcritical and supercritical water oxidation for dye decomposition. Journal of Environmental Management, 2021, 290, 112605.	7.8	60
59	Development of Hydrogels with the Incorporation of Raphanus sativus L. Seed Extract in Sodium Alginate for Wound-Healing Application. Gels, 2021, 7, 107.	4.5	16
60	Recent developments for antimicrobial applications of graphene-based polymeric composites: A review. Journal of Industrial and Engineering Chemistry, 2021, 100, 40-58.	5.8	57
61	Mixed metal ferrite (Mn_{0.6}Zn_{0.4}Fe₂O₄) intercalated g-C₃N₄ nanocomposite: efficient sunlight driven photocatalyst for methylene blue degradation. Nanotechnology, 2021, 32, 505714.	2.6	8
62	Structural, morphological, dielectric and magnetic properties of Ba_{1â^'x}Cr_xFe₁₂O₁₉ M type hexaferrites. Physica Scripta, 2021, 96, 125405.	2.5	14
63	Fabrication and Characterization of Sulfonated Graphene Oxide (SGO) Doped PVDF Nanocomposite Membranes with Improved Anti-Biofouling Performance. Membranes, 2021, 11, 749.	3.0	10
64	Physical characteristics of barium based cubic perovskites. Chemical Physics Letters, 2021, 779, 138835.	2.6	11
65	Solar driven photocatalytic degradation potential of novel graphitic carbon nitride based nano zero-valent iron doped bismuth ferrite ternary composite. Optical Materials, 2021, 120, 111408.	3.6	44
66	Facile fabrication of TiO2 with 3D hierarchical structure and its supported Pd catalysts for high catalytic hydrogenation performance of 4-Nitrophenol to 4-Aminophenol. Applied Surface Science, 2021, 566, 150615.	6.1	15
67	Experimental and statistical analysis of dielectric barrier discharge plasma effect on sonochemically TiO2 coated cotton fabric using complete composite design. Current Applied Physics, 2021, 31, 158-170.	2.4	4
68	Coal fly ash-based copper ferrite nanocomposites as potential heterogeneous photocatalysts for wastewater remediation. Applied Surface Science, 2021, 565, 150542.	6.1	40
69	Composite of polypyrrole with sugarcane bagasse cellulosic biomass and adsorption efficiency for 2,4-dicholrophonxy acetic acid in column mode. Journal of Materials Research and Technology, 2021, 15, 2016-2025.	5.8	17
70	Deep eutectic solvents as alternative green solvents for the efficient desulfurization of liquid fuel: A comprehensive review. Fuel, 2021, 305, 121502.	6.4	53
71	Applications of coagulation-flocculation and nanotechnology in water treatment. , 2021, , 533-558.		4
72	Silver-doped ternary compounds for wastewater remediation. , 2021, , 623-653.		2

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73	Silver-doped metal ferrites for wastewater treatment. , 2021, , 599-622.		1
74	Wastewater remediation using coal fly ash nanocomposites. , 2021, , 159-184.		1
75	UV-Accelerated Photocatalytic Degradation of Pesticide over Magnetite and Cobalt Ferrite Decorated Graphene Oxide Composite. Plants, 2021, 10, 6.	3.5	43
76	Production and Evaluation of Fractionated Tamarind Seed Oil Methyl Esters as a New Source of Biodiesel. Energies, 2021, 14, 7148.	3.1	4
77	Investigation of Fe-Doped Graphitic Carbon Nitride-Silver Tungstate as a Ternary Visible Light Active Photocatalyst. Journal of Chemistry, 2021, 2021, 1-18.	1.9	11
78	Degradation of reactive dye using heterogeneous photo-Fenton catalysts: ZnFe₂O₄ and GO-ZnFe₂O₄ composite. Materials Research Express, 2020, 7, 015519.	1.6	64
79	Fabrication of reduced graphene oxide (RGO) and nanocomposite with thermoplastic polyurethane (TPU) for EMI shielding application. Journal of Materials Science: Materials in Electronics, 2020, 31, 967-974.	2.2	39
80	Theoretical Study of the Reverse Roll Coating of Non-Isothermal Magnetohydrodynamics Viscoplastic Fluid. Coatings, 2020, 10, 940.	2.6	14
81	Mathematical Analysis of Pseudoplastic Polymers during Reverse Roll-Coating. Polymers, 2020, 12, 2285.	4.5	14
82	Pd/Mo2N-TiO2 as efficient catalysts for promoted selective hydrogenation of 4-nitrophenol: A green bio-reducing preparation method. Journal of Catalysis, 2020, 391, 190-201.	6.2	44
83	Curcumin-based bionanocomposites. , 2020, , 233-257.		0
84	Effect on the EMI Shielding Properties of Cobalt Ferrites and Coal-Fly-Ash Based Polymer Nanocomposites. Journal of Superconductivity and Novel Magnetism, 2020, 33, 3519-3524.	1.8	30
85	First Principle Insight into the Structural, Optoelectronic, Half Metallic, and Mechanical Properties of Cubic Perovskite NdInO3. Arabian Journal for Science and Engineering, 2020, 45, 4967-4974.	3.0	38
86	Hybrid nanomaterials for water purification. , 2020, , 155-188.		15
87	MnFe2O4/coal fly ash nanocomposite: a novel sunlight-active magnetic photocatalyst for dye degradation. International Journal of Environmental Science and Technology, 2020, 17, 4233-4248.	3.5	38
88	Synthesis of Pt supported on mesoporous g-C3N4 modified by ammonium chloride and its efficiently selective hydrogenation of furfural to furfuryl alcohol. Applied Surface Science, 2020, 528, 146983.	6.1	28
89	Prospects of nanocomposite membranes for water treatment by pressure-driven membrane processes. , 2020, , 237-256.		2
90	Synthesis of CoCrFeO4-chitosan beads sun-light-driven photocatalyst with well recycling for efficiently degrading high-concentration dyes. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 236, 118314.	3.9	29

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91	Degradation of acetamiprid using graphene-oxide-based metal (Mn and Ni) ferrites as Fenton-like photocatalysts. Water Science and Technology, 2020, 81, 178-189.	2.5	39
92	Environmentally Friendly Extraction of Bioactive Compounds from <i>Mentha arvensis</i> Using Deep Eutectic Solvent as Green Extraction Media. Polish Journal of Environmental Studies, 2020, 29, 3749-3757.	1.2	22
93	Nanostructured Molecularly Imprinted Photonic Polymers for Sensing Applications. Current Nanoscience, 2020, 16, 495-503.	1.2	9
94	Prospects of nanocomposite membranes in commercial scale. , 2020, , 457-473.		0
95	Investigation of role of urea in morphologically controlled synthesis of calciumâ€bismuth bimetallic nanoparticles from chicken egg shells and its catalytic and fuel additive applications. Journal of the Chinese Chemical Society, 2019, 66, 1628-1640.	1.4	11
96	Metal Ferrites and Their Graphene-Based Nanocomposites: Synthesis, Characterization, and Applications in Wastewater Treatment. Nanotechnology in the Life Sciences, 2019, , 181-212.	0.6	24
97	Spectroscopic studies of interactions of 2-(2-Oxo-2-Phenylethyl)-1, 2-benzisothiazol-3(2H)-one-1, 1-dioxide with human DNA. Journal of Molecular Structure, 2019, 1196, 403-408.	3.6	2
98	Graphene oxide decorated ZnWO4 architecture synthesis, characterization and photocatalytic activity evaluation. Journal of Molecular Liquids, 2019, 285, 778-789.	4.9	83
99	A robust approach towards green synthesis of polyaniline-Scenedesmusbiocomposite for wastewater treatment applications. Materials Research Express, 2019, 6, 055308.	1.6	31
100	Possible applications of coal fly ash in wastewater treatment. Journal of Environmental Management, 2019, 240, 27-46.	7.8	184
101	Morphological changes and antioxidative capacity of jute (Corchorus capsularis, Malvaceae) under different color light-emitting diodes. Revista Brasileira De Botanica, 2019, 42, 581-590.	1.3	47
102	Biogenic synthesis, characterization and investigation of photocatalytic and antimicrobial activity of manganese nanoparticles synthesized from Cinnamomum verum bark extract. Journal of Molecular Structure, 2019, 1179, 532-539.	3.6	146
103	Reporting effective extraction methodology and chemical characterization of bioactive components of under explored Platycladus orientalis (L.) Franco from semi-arid climate. Natural Product Research, 2019, 33, 1237-1242.	1.8	6
104	Enhanced photodegradation of methylene blue with alkaline and transitionâ€metal ferrite nanophotocatalysts under direct sun light irradiation. Journal of the Chinese Chemical Society, 2019, 66, 402-408.	1.4	86
105	Fe₃O₄-GO composite as efficient heterogeneous photo-Fentonâ€™s catalyst to degrade pesticides. Materials Research Express, 2019, 6, 015608.	1.6	31
106	Tailoring electrical and thermal properties of polymethyl methacrylateâ€carbon nanotubes composites through polyaniline and dodecyl benzene sulphonic acid impregnation. Polymer Composites, 2018, 39, E1052.	4.6	6
107	Hydrothermal synthesis of molybdenum trioxide, characterization and photocatalytic activity. Materials Research Bulletin, 2018, 100, 120-130.	5.2	49
108	A Comprehensive Review on Polymeric Nano-Composite Membranes for Water Treatment. Journal of Membrane Science & Technology, 2018, 08, .	0.5	158

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109	Ion-Imprinted Polymer-Based Receptors for Sensitive and Selective Detection of Mercury Ions in Aqueous Environment. Journal of Sensors, 2018, 2018, 1-6.	1.1	9
110	DFT Study for the Spectroscopic and Structural Analysis of p-Dimethylaminoazobenzene. Journal of Spectroscopy, 2018, 2018, 1-15.	1.3	25
111	Variations in the Physicochemical Profile of Khushab Coal under Various Environmental Conditions. Polish Journal of Environmental Studies, 2018, 27, 987-992.	1.2	9
112	Chromium adsorption using waste tire and conditions optimization by response surface methodology. Journal of Environmental Chemical Engineering, 2017, 5, 2740-2751.	6.7	60
113	CFD Modeling and Experimental Validation of a Solar Still. MATEC Web of Conferences, 2017, 131, 02010.	0.2	5
114	Removal of Actacid Orange-RL Dye Using Biocomposites: Modeling Studies. Polish Journal of Environmental Studies, 2017, 26, 2125-2134.	1.2	45
115	Potent mutagenicity in the Ames test of 2â€cyanoâ€4â€nitroaniline and 2,6â€dicyanoâ€4â€nitroaniline, components of disperse dyes. Environmental and Molecular Mutagenesis, 2016, 57, 10-16.	2.2	10
116	Response surface methodology application in optimization of cadmium adsorption by shoe waste: A good option of waste mitigation by waste. Ecological Engineering, 2016, 88, 265-275.	3.6	158
117	Biosorption of Drimarine Blue HF-RL using raw, pretreated, and immobilized peanut hulls. Desalination and Water Treatment, 2014, 52, 7339-7353.	1.0	5
118	AÂMechanistic Study of Photoinduced Electron Transfer from Triplet Erythrosin to Various Quinones Using Time Resolved Absorption and ESR-CIDEP Measurements. Zeitschrift Fur Physikalische Chemie, 2014, 228, 301-324.	2.8	2
119	Spectral and thermodynamic properties for the exciplexes of N-alkyl carbazoles with dicyanobenzenes in THF. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 138-145.	3.9	4
120	Effect of solvent polarity and temperature on the spectral and thermodynamic properties of exciplexes of 1-cyanonaphthalene with hexamethylbenzene in organic solvents. Journal of Luminescence, 2014, 153, 12-20.	3.1	2
121	Absorption and Fluorescence Emission Attributes of a Fluorescent dye: 2,3,5,6-Tetracyano-p-Hydroquinone. Journal of Fluorescence, 2013, 23, 829-837.	2.5	7
122	Physico-chemical and Geochemical Correlation Study of Aliphatic Hydrocarbons for Sindh Basin (Pakistan) Condensate Samples. Asian Journal of Chemistry, 2013, 25, 9813-9816.	0.3	1
123	Investigation of structural and optoelectronic properties of BaThO3. Optical Materials, 2011, 33, 553-557.	3.6	124
124	Synthesis and photophysical properties of 2,6-dicyano-p-phenylenediamine. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 220, 54-63.	3.9	15
125	Modification of cotton fabric for textile dyeing: industrial mercerization versus gamma irradiation. Journal of the Textile Institute, 0, , 1-7.	1.9	6
126	Antioxidants: Natural Antibiotics. , 0, , .		12

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127	Applications of Carbon Based Materials in Developing Advanced Energy Storage Devices. , 0, , .		0
128	Assessment of the physico-chemical and bacteriological quality of groundwater in the Kert Plain, northeastern Morocco. International Journal of Energy and Water Resources, 0, , 1.	2.2	4
129	Enzymatic glycosylation of menthol: optimization of synthesis and extraction processes using response surface methodology and biological evaluation of synthesized product. Chemical Papers, 0, , 1.	2.2	1
130	Synthesis and application of molecular imprinted polymers for online monitoring of textile dyes in wastewater. , 0, 241, 35-39.		0