Ijaz Ahmad Bhatti

List of Publications by Year
in descending order

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		87723	123241
126	4,495	38	61
papers	citations	h-index	g-index

129	129	129	3896
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microwave assisted extraction and dyeing of cotton fabric with mixed natural dye from pomegranate rind (Punica granatum L.) and turmeric rhizome (Curcuma longa L.). Journal of Natural Fibers, 2022, 19, 248-255.	1.7	29
2	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.	2.7	22
3	Pyrolysis of almond shells waste: effect of zinc oxide on kinetics and product distribution. Biomass Conversion and Biorefinery, 2022, 12, 2583-2595.	2.9	24
4	Effect of Biochar on Immobilization of Cadmium and Soil Chemical Properties. Gesunde Pflanzen, 2022, 74, 151-158.	1.7	8
5	Improved Spectrophotometric Method for Fast and Accurate Quantitative Determination of Menthol in Essential Oils. Food Analytical Methods, 2022, 15, 1575-1580.	1.3	5
6	Investigation of the adsorption properties of gemcitabine anticancer drug with metal-doped boron nitride fullerenes as a drug-delivery carrier: a DFT study. RSC Advances, 2022, 12, 2873-2887.	1.7	31
7	Prewetting Induced Hydrophilicity to Augment Photocatalytic Activity of Nanocalcite @ Polyester Fabric. Polymers, 2022, 14, 295.	2.0	4
8	Dissolution of molybdenite roasting flue dust in sulfuric acid: kinetics and mechanism for molybdenum and rhenium leaching. Chemical Papers, 2022, 76, 4049-4058.	1.0	6
9	Preparation and characterization of thermoplastic polyurethanes blended with chitosan and starch processed through extrusion. International Journal of Biological Macromolecules, 2022, 208, 37-44.	3.6	14
10	Enhancement of NLO properties of supersalt (Al(BH4)3)-doped graphene: a DFT study. Journal of Molecular Modeling, 2022, 28, .	0.8	4
11	A DFT study of nonlinear optical response of supersalt (Al(BH₄)₃) doped boron nitride. Journal of Taibah University for Science, 2022, 16, 621-631.	1.1	6
12	Barbecued desi chicken: an investigation on the impact of polluted milieu upon formation and ingestion of polycyclic aromatic hydrocarbons (PAHs) in commercial versus laboratory barbecued organs along with stochastic cancer risk assessments in people from an industrial district of Punjab, Pakistan. Environmental Science and Pollution Research, 2021, 28, 4216-4228.	2.7	3
13	Synthesis, biological efficiency evaluation and application of sodium alginate-based polyurethane dispersions using cycloaliphatic isocyanate, as antibacterial textile coating. Journal of Industrial Textiles, 2021, 50, 1625-1642.	1.1	6
14	Iron-doped zinc oxide for photocatalyzed degradation of humic acid from municipal wastewater. Applied Materials Today, 2021, 23, 101047.	2.3	18
15	Potassium ferrite nanoparticles on DAP to formulate slow release fertilizer with auxiliary nutrients. Ecotoxicology and Environmental Safety, 2021, 215, 112148.	2.9	18
16	Synthesis and photocatalytic degradation of rhodamine B using ternary zeolite/WO₃/Fe₃O₄ composite. Nanotechnology, 2021, 32, 345705.	1.3	24
17	Recent developments for antimicrobial applications of graphene-based polymeric composites: A review. Journal of Industrial and Engineering Chemistry, 2021, 100, 40-58.	2.9	57
18	Tuning the optoelectronic properties of triphenylamine (TPA) based small molecules by modifying central core for photovoltaic applications. Journal of Molecular Modeling, 2021, 27, 237.	0.8	60

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19	Kinetic and equilibrium study of (poly amido amine) PAMAM dendrimers for the removal of chromium from tannery wastewater. Zeitschrift Fur Physikalische Chemie, 2021, 235, 1027-1039.	1.4	19
20	A perspective on possible amendments in semiconductors for enhanced photocatalytic hydrogen generation by water splitting. International Journal of Hydrogen Energy, 2021, 46, 39036-39057.	3.8	36
21	The theoretical investigation of the opto-electronic properties of designed molecules having 2-(2-Methylene-3-oxo-indane-1-ylidene)malononitrile as end-capped acceptors. Zeitschrift Fur Physikalische Chemie, 2021, 235, 785-804.	1.4	0
22	Enhanced Solar Photocatalytic Reduction of Cr(VI) Using a (ZnO/CuO) Nanocomposite Grafted onto a Polyester Membrane for Wastewater Treatment. Polymers, 2021, 13, 4047.	2.0	14
23	Solâ€“Gel Synthesis of Mesoporous Silicaâ€“Iron Composite: Kinetics, Equilibrium and Thermodynamics Studies for the Adsorption of Turquoise-Blue X-GB Dye. Zeitschrift Fur Physikalische Chemie, 2020, 234, 233-253.	1.4	26
24	Gamma Radiation and Hydrogen Peroxide Based Advanced Oxidation Process for the Degradation of Disperse Dye in Aqueous Medium. Zeitschrift Fur Physikalische Chemie, 2020, 234, 279-294.	1.4	30
25	Moringa. , 2020, , 509-523.		1
26	Basil. , 2020, , 47-62.		2
27	Black Piper. , 2020, , 75-86.		2
28	Himalayan Birch. , 2020, , 369-379.		0
29	Hollyhock. , 2020, , 381-391.		2
30	Olive. , 2020, , 541-555.		4
31	Sesame. , 2020, , 601-615.		10
32	Thermo-catalytic decomposition of polystyrene waste: Comparative analysis using different kinetic models. Waste Management and Research, 2020, 38, 202-212.	2.2	53
33	Kinetics of the pyrolysis of cobalt-impregnated sesame stalk biomass. Biomass Conversion and Biorefinery, 2020, 10, 1179-1187.	2.9	25
34	Fe3+ @ ZnO/polyester based solar photocatalytic membrane reactor for abatement of RB5 dye. Journal of Cleaner Production, 2020, 246, 119010.	4.6	44
35	Degradation of reactive dye using heterogeneous photo-Fenton catalysts: ZnFe₂O₄ and GO-ZnFe₂O₄ composite. Materials Research Express, 2020, 7, 015519.	0.8	64
36	Synthesis and characterization of stable and biological active chitin-based polyurethane elastomers. International Journal of Biological Macromolecules, 2020, 154, 1149-1157.	3.6	31

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37	Dill. , 2020, , 231-239.		0
38	Polyamidoamine (PAMAM) dendrimers synthesis, characterization and adsorptive removal of nickel ions from aqueous solution. Journal of Materials Research and Technology, 2020, 9, 498-506.	2.6	73
39	Photo-assisted splitting of water into hydrogen using visible-light activated silver doped g-C3N4 & CNTs hybrids. International Journal of Hydrogen Energy, 2020, 45, 31574-31584.	3.8	25
40	Fe/ZnO@ceramic fabrication for the enhanced photocatalytic performance under solar light irradiation for dye degradation. Journal of Materials Research and Technology, 2020, 9, 4218-4229.	2.6	42
41	Degradation of acetamiprid using graphene-oxide-based metal (Mn and Ni) ferrites as Fenton-like photocatalysts. Water Science and Technology, 2020, 81, 178-189.	1.2	39
42	Radiation induced degradation of Congo red dye: a mechanistic study. Nukleonika, 2019, 64, 49-53.	0.3	15
43	Pyrolysis of polypropylene over a LZ-Y52 molecular sieve: kinetics and the product distribution. Iranian Polymer Journal (English Edition), 2019, 28, 839-847.	1.3	14
44	Influence of chitosan/1,4-butanediol blends on the thermal and surface behavior of polycaprolactone diol-based polyurethanes. International Journal of Biological Macromolecules, 2019, 141, 1022-1034.	3.6	25
45	Designing indacenodithiophene based non-fullerene acceptors with a donorâ€“acceptor combined bridge for organic solar cells. RSC Advances, 2019, 9, 3605-3617.	1.7	83
46	Porous Eleocharis@MnPE Layered Hybrid for Synergistic Adsorption and Catalytic Biodegradation of Toxic Azo Dyes from Industrial Wastewater. Environmental Science & Technology, 2019, 53, 2161-2170.	4.6	102
47	Evaluation of cytotoxicity, hemocompatibility and spectral studies of chitosan assisted polyurethanes prepared with various diisocyanates. International Journal of Biological Macromolecules, 2019, 129, 116-126.	3.6	25
48	Metal Ferrites and Their Graphene-Based Nanocomposites: Synthesis, Characterization, and Applications in Wastewater Treatment. Nanotechnology in the Life Sciences, 2019, , 181-212.	0.4	24
49	Replacement of sodium alginate polymer, urea and sodium bicarbonate in the conventional reactive printing of cellulosic cotton. Journal of Polymer Engineering, 2019, 39, 661-670.	0.6	16
50	Bismuth vanadate: an efficient photocatalyst for rupturing of microalgae cell wall. Materials Research Express, 2019, 6, 085502.	0.8	0
51	Graphene oxide decorated ZnWO4 architecture synthesis, characterization and photocatalytic activity evaluation. Journal of Molecular Liquids, 2019, 285, 778-789.	2.3	83
52	Possible applications of coal fly ash in wastewater treatment. Journal of Environmental Management, 2019, 240, 27-46.	3.8	184
53	Designing dithienonaphthalene based acceptor materials with promising photovoltaic parameters for organic solar cells. RSC Advances, 2019, 9, 34496-34505.	1.7	52
54	In Vivo and In Vitro Monitoring of Amyloid Aggregation via BSA@FGQDs Multimodal Probe. ACS Sensors, 2019, 4, 200-210.	4.0	54

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55	Synthesis and characterization of chitosan modified polyurethane bio-nanocomposites with biomedical potential. International Journal of Biological Macromolecules, 2018, 115, 375-384.	3.6	52
56	Synthesis and Characterization of Aqueous Chitosan-polyurethanes Dispersion for Textile Applications with Multipurpose Performance Profile. Fibers and Polymers, 2018, 19, 587-598.	1.1	14
57	Hydrothermal synthesis of molybdenum trioxide, characterization and photocatalytic activity. Materials Research Bulletin, 2018, 100, 120-130.	2.7	49
58	Pathological effects of concurrent administration of aflatoxin B1 and fowl adenovirus-4 in broiler chicks. Microbial Pathogenesis, 2018, 121, 147-154.	1.3	11
59	Multi-response optimization of enzyme-assisted maceration to enhance the yield and antioxidant activity of Cassia fistula pods extracts. Journal of Food Measurement and Characterization, 2018, 12, 2685-2694.	1.6	6
60	Chromium adsorption using waste tire and conditions optimization by response surface methodology. Journal of Environmental Chemical Engineering, 2017, 5, 2740-2751.	3.3	60
61	Coal desulphurization and conditions optimization through response surface methodology, Khushab mines, Pakistan. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2017, 39, 1235-1241.	1.2	10
62	Raman spectroscopy for the characterization of different fractions of hemp essential oil extracted at 130 Â°C using steam distillation method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 182, 168-174.	2.0	16
63	Study of the UV protective and antibacterial properties of aqueous polyurethane dispersions extended with low molecular weight chitosan. International Journal of Biological Macromolecules, 2017, 94, 51-60.	3.6	19
64	Dyeing of UV irradiated cotton and polyester fabrics with multifunctional reactive and disperse dyes. Journal of Saudi Chemical Society, 2016, 20, 178-184.	2.4	62
65	Synthesis, characterization and photocatalytic activity of ZnO flower and pseudo-sphere: Nonylphenol ethoxylate degradation under UV and solar irradiation. Journal of Alloys and Compounds, 2016, 678, 126-136.	2.8	99
66	Synthesis, characterization and efficiency evaluation of chitosan-polyurethane based textile finishes. International Journal of Biological Macromolecules, 2016, 93, 145-155.	3.6	36
67	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.	1.6	158
68	Physicochemical characterization, microbial decontamination and shelf life analysis of walnut () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 22 Biotechnology, 2016, 6, 116-122.	1.5	13
69	Remediation of Pb(II) usingPleurotus sajor-cajuisolated from metal-contaminated site. Desalination and Water Treatment, 2015, 56, 2532-2542.	1.0	3
70	Synthesis of some novel adsorbents for antimicrobial activity and removal of arsenic from drinking water. Korean Journal of Chemical Engineering, 2015, 32, 661-666.	1.2	3
71	Gamma radiation/H2O2 treatment of a nonylphenol ethoxylates: Degradation, cytotoxicity, and mutagenicity evaluation. Journal of Hazardous Materials, 2015, 299, 351-360.	6.5	157
72	Antibacterial Potential of Capparis spinosa and Capparis decidua Extracts. International Journal of Agriculture and Biology, 2015, 17, 727-733.	0.2	18

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73	Cloning and Site Directed Mutagenesis of UGT76E1 Leads to Changed Substrate Activity in Arabidopsis thalian. International Journal of Agriculture and Biology, 2015, 17, 1125-1132.	0.2	1
74	Efficiency of Advanced Oxidation Processes for Detoxification of Industrial Effluents. Asian Journal of Chemistry, 2014, 26, 4291-4296.	0.1	31
75	Extraction of natural dye from red calico leaves: Gamma ray assisted improvements in colour strength and fastness properties. Dyes and Pigments, 2014, 103, 50-54.	2.0	128
76	Application of Vat Green 1 dye on gamma ray treated cellulosic fabric. Radiation Physics and Chemistry, 2014, 102, 124-127.	1.4	28
77	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.	1.5	2
78	Effects of FSH extracted from in vitro cultured anterior pituitary cells of male buffalo calves on body and testes weight, serum FSH and total cholesterol and hematological variables in male rabbits. Animal Reproduction Science, 2014, 150, 125-129.	0.5	0
79	Effect of UV radiation on the dyeing of cotton fabric with reactive blue 13. Journal of Saudi Chemical Society, 2014, 18, 606-609.	2.4	51
80	Absorption and Fluorescence Emission Attributes of a Fluorescent dye: 2,3,5,6-Tetracyano-p-Hydroquinone. Journal of Fluorescence, 2013, 23, 829-837.	1.3	7
81	Effect of ZnO seed layer thickness on hierarchical ZnO nanorod growth on flexible substrates for application in dye-sensitised solar cells. Journal of Nanoparticle Research, 2013, 15, 1.	0.8	34
82	Dyeing of Î³-irradiated cotton with natural flavonoid dye extracted from irradiated onion shells (Allium cepa) powder. Radiation Physics and Chemistry, 2013, 92, 71-75.	1.4	39
83	Hierarchical ZnO nanorod electrodes: Effect of post annealing on structural and photoelectrochemical performance. Materials Letters, 2013, 93, 333-336.	1.3	17
84	Effect of Î³ irradiation on fungal load and aflatoxins reduction in red chillies. Radiation Physics and Chemistry, 2013, 82, 80-84.	1.4	61
85	Gamma radiations induced improvement in dyeing properties and colorfastness of cotton fabrics dyed with chicken gizzard leaves extracts. Radiation Physics and Chemistry, 2013, 89, 33-37.	1.4	43
86	Degradation Study of C.I. Reactive Yellow 145 by Advanced Oxidation Process. Asian Journal of Chemistry, 2013, 25, 8668-8672.	0.1	20
87	Dyeing Behaviour of g-Irradiated Cotton Using Amaltas (Cassia fistula) Bark Extracts. Asian Journal of Chemistry, 2013, 25, 2739-2741.	0.1	15
88	Dyeing behaviour of gamma irradiated cotton fabric using Lawson dye extracted from henna leaves (Lawsonia inermis). Radiation Physics and Chemistry, 2012, 81, 1752-1756.	1.4	42
89	Effect of mercerization and gamma irradiation on the dyeing behaviour of cotton using stilbene based direct dye. Radiation Physics and Chemistry, 2012, 81, 823-826.	1.4	24
90	Modification of cellulosic fibers to enhance their dyeability using UV-irradiation. Carbohydrate Polymers, 2012, 89, 783-787.	5.1	20

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91	MINERAL COMPOSITION OF STRAWBERRY, MULBERRY AND CHERRY FRUITS AT DIFFERENT RIPENING STAGES AS ANALYZED BY INDUCTIVELY COUPLED PLASMA-OPTICAL EMISSION SPECTROSCOPY. Journal of Plant Nutrition, 2012, 35, 111-122.	0.9	28
92	Modification of cellulosic fibers by UV-irradiation. Part II: After treatments effects. International Journal of Biological Macromolecules, 2012, 51, 743-748.	3.6	28
93	Modification of cellulosic fabric using polyvinyl alcohol, part-II: Colorfastness properties. Carbohydrate Polymers, 2012, 87, 2439-2446.	5.1	16
94	Improvement of colour strength and colourfastness properties of gamma irradiated cotton using reactive black-5. Radiation Physics and Chemistry, 2012, 81, 264-266.	1.4	18
95	Effect of Radiation on Textile Dyeing. , 2011, , .		3
96	Effect of Gamma Radiation on Dyeing of Cotton Fabric with Reactive Blue 13. Research Journal of Textile and Apparel, 2011, 15, 107-114.	0.6	6
97	Improvement of performance behavior of cellulosic fiber with polyurethane acrylate copolymers. Carbohydrate Polymers, 2011, 86, 928-935.	5.1	15
98	Evaluation of irradiation in foods using DNA Comet assay. Journal of Food Science and Technology, 2011, 48, 106-109.	1.4	2
99	Removal of direct Redâ€31 and direct Orangeâ€26 by low cost rice husk: Influence of immobilisation and pretreatments. Canadian Journal of Chemical Engineering, 2011, 89, 1554-1565.	0.9	25
100	Effect of UV-Radiation on Extraction and Dyeing of Cotton Fabric with Pomegranate Rind. Research Journal of Textile and Apparel, 2010, 14, 53-58.	0.6	20
101	Influence of gamma radiation on the colour strength and fastness properties of fabric using turmeric (Curcuma longa L.) as natural dye. Radiation Physics and Chemistry, 2010, 79, 622-625.	1.4	52
102	Quality index of oils extracted from Î³-irradiated peanuts (Arachis hypogaea L.) of the golden and bari varieties. Applied Radiation and Isotopes, 2010, 68, 2197-2201.	0.7	28
103	Enhanced Decolorization of NOVASOL Direct Black Textile Dye by Agaricus bitorqus A66. International Journal of Chemical Reactor Engineering, 2010, 8, .	0.6	1
104	Synthesis of chitinâ€“bentonite clay based polyurethane bio-nanocomposites. International Journal of Biological Macromolecules, 2010, 47, 196-200.	3.6	28
105	Structural characteristics of UVâ€irradiated polyurethane elastomers extended with Î±,Ï‰â€alkane diols. Journal of Applied Polymer Science, 2009, 113, 2843-2850.	1.3	23
106	XRD studies of polyurethane elastomers based on chitin/1,4-butane diol blends. Carbohydrate Polymers, 2009, 76, 183-187.	5.1	79
107	Thermo-mechanical characteristics of UV-irradiated polyurethane elastomers extended with Î±, Ï‰-alkane diols. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1811-1816.	0.6	13
108	Surface characteristics of chitin-based shape memory polyurethane elastomers. Colloids and Surfaces B: Biointerfaces, 2009, 72, 248-252.	2.5	45

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109	XRD studies of UV-irradiated chitin based polyurethane elastomers. Carbohydrate Polymers, 2009, 77, 54-58.	5.1	29
110	Evaluation of biocompatibility and mechanical behavior of polyurethane elastomers based on chitin/1,4-butane diol blends. International Journal of Biological Macromolecules, 2009, 44, 18-22.	3.6	56
111	Evaluation of biocompatibility and mechanical behavior of chitin-based polyurethane elastomers. Part-II: Effect of diisocyanate structure. International Journal of Biological Macromolecules, 2009, 44, 23-28.	3.6	39
112	Surface characteristics of polyurethane elastomers based on chitin/1,4-butane diol blends. International Journal of Biological Macromolecules, 2009, 44, 182-185.	3.6	37
113	Surface characteristics of UV-irradiated polyurethane elastomers extended with Î±, Ï‰-alkane diols. Applied Surface Science, 2008, 254, 6754-6761.	3.1	28
114	Synthesis and thermomechanical characterization of polyurethane elastomers extended with Î±,Ï‰â€alkane diols. Journal of Applied Polymer Science, 2008, 109, 1840-1849.	1.3	44
115	Synthesis and characterization of novel, biodegradable, thermally stable chitinâ€based polyurethane elastomers. Journal of Applied Polymer Science, 2008, 110, 769-776.	1.3	60
116	Molecular engineering of chitin based polyurethane elastomers. Carbohydrate Polymers, 2008, 74, 149-158.	5.1	113
117	Molecular engineering and properties of chitin based shape memory polyurethanes. Carbohydrate Polymers, 2008, 74, 621-626.	5.1	73
118	XRD studies of chitin-based polyurethane elastomers. International Journal of Biological Macromolecules, 2008, 43, 136-141.	3.6	71
119	Characteristics of pulsed photo-stimulated luminescence and thermoluminescence for the identification of gamma irradiated poultry eggs. Nuclear Science and Techniques/Hewuli, 2007, 18, 20-25.	1.3	1
120	Identification of radiation treatment of wheat (Triticum aestivum. L) and rice (Oryza sativa. L) samples using thermoluminescence of contaminating minerals. Nuclear Science and Techniques/Hewuli, 2007, 18, 26-29.	1.3	2
121	Methods for polyurethane and polyurethane composites, recycling and recovery: A review. Reactive and Functional Polymers, 2007, 67, 675-692.	2.0	553
122	Influence of detoxified Indian vetch (Lathyrus sativus L.) on sensory and protein quality characteristics of composite flour chapatti. Journal of the Science of Food and Agriculture, 2006, 86, 1172-1180.	1.7	11
123	Phytate and mineral content in different milling fractions of some Pakistani spring wheats. International Journal of Food Science and Technology, 2002, 37, 13-17.	1.3	30
124	Classification of quality of spring wheats by cluster analysis. International Journal of Food Science and Technology, 2002, 37, 101-106.	1.3	3
125	Modification of cotton fabric for textile dyeing: industrial mercerization versus gamma irradiation. Journal of the Textile Institute, 0, , 1-7.	1.0	6
126	Gamma and UV radiation induced degradation of methotrexate (anti-rheumatic drug) in aqueous solution and conditions optimization. , 0, 191, 332-341.		1