

Murtaza Sayed

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72
papers

2,503
citations

29
h-index

48
g-index

75
ext. papers

3,139
ext. citations

6.9
avg, IF

5.53
L-index

#	Paper	IF	Citations
72	Enhanced biodiesel production from Jatropha oil using calcined waste animal bones as catalyst. <i>Renewable Energy</i> , 2017 , 101, 111-119	8.1	190
71	Solar light driven degradation of norfloxacin using as-synthesized Bi ³⁺ and Fe ²⁺ co-doped ZnO with the addition of HSO ₅ ⁻ Toxicities and degradation pathways investigation. <i>Chemical Engineering Journal</i> , 2018 , 351, 841-855	14.7	147
70	Oxidative removal of brilliant green by UV/SO ₂ , UV/H ₂ O ₂ and UV/HO ₂ processes in aqueous media: A comparative study. <i>Journal of Hazardous Materials</i> , 2018 , 357, 506-514	12.8	122
69	Solar Light Responsive Poly(vinyl alcohol)-Assisted Hydrothermal Synthesis of Immobilized TiO ₂ /Ti Film with the Addition of Peroxymonosulfate for Photocatalytic Degradation of Ciprofloxacin in Aqueous Media: A Mechanistic Approach. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 406-421	3.8	107
68	Hydroxyl and sulfate radical mediated degradation of ciprofloxacin using nano zerovalent manganese catalyzed S ₂ O ₈ ²⁻ <i>Chemical Engineering Journal</i> , 2019 , 356, 199-209	14.7	99
67	Superabsorbent polymer hydrogels with good thermal and mechanical properties for removal of selected heavy metal ions. <i>Journal of Cleaner Production</i> , 2018 , 201, 78-87	10.3	87
66	Greener synthesis of zinc oxide nanoparticles using Trianthema portulacastrum extract and evaluation of its photocatalytic and biological applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2019 , 192, 147-157	6.7	86
65	Degradation of quinolone antibiotic, norfloxacin, in aqueous solution using gamma-ray irradiation. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 13155-68	5.1	82
64	Synergistic effects of activated carbon and nano-zerovalent copper on the performance of hydroxyapatite-alginate beads for the removal of As ³⁺ from aqueous solution. <i>Journal of Cleaner Production</i> , 2019 , 235, 875-886	10.3	74
63	Degradation kinetics and mechanism of desethyl-atrazine and desisopropyl-atrazine in water with OH and SO ₄ ²⁻ based-AOPs. <i>Chemical Engineering Journal</i> , 2017 , 325, 485-494	14.7	68
62	Efficient Photocatalytic Degradation of Norfloxacin in Aqueous Media by Hydrothermally Synthesized Immobilized TiO ₂ /Ti Films with Exposed {001} Facets. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9916-9931	2.8	68
61	Carbamazepine degradation by UV and UV-assisted AOPs: Kinetics, mechanism and toxicity investigations. <i>Chemical Engineering Research and Design</i> , 2018 , 117, 307-314	5.5	63
60	Advanced oxidation for the treatment of chlorpyrifos in aqueous solution. <i>Chemosphere</i> , 2013 , 93, 645-58.4	5.4	62
59	Synthesis of eosin modified TiO ₂ film with co-exposed {001} and {101} facets for photocatalytic degradation of para-aminobenzoic acid and solar H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118557	21.8	61
58	Nano-zerovalent manganese/biochar composite for the adsorptive and oxidative removal of Congo-red dye from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123854	12.8	60
57	Synthesis of sensitive hybrid polymer microgels for catalytic reduction of organic pollutants. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 3492-3497	6.8	56
56	Synergistic effects of H ₂ O ₂ and S ₂ O ₈ ²⁻ in the gamma radiation induced degradation of congo-red dye: Kinetics and toxicities evaluation. <i>Separation and Purification Technology</i> , 2020 , 233, 115966	8.3	56

55	Degradation of ciprofloxacin in water by advanced oxidation process: kinetics study, influencing parameters and degradation pathways. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 590-602	2.6	50
54	Narrowing the band gap of TiO ₂ by co-doping with Mn ²⁺ and Co ²⁺ for efficient photocatalytic degradation of enoxacin and its additional peroxidase like activity: A mechanistic approach. <i>Journal of Molecular Liquids</i> , 2018 , 272, 403-412	6	48
53	Deep eutectic solvent-mediated synthesis of ceria nanoparticles with the enhanced yield for photocatalytic degradation of flumequine under UV-C. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101012	6.7	45
52	Synergistic effects of HSO ₅ ⁻ in the gamma radiation driven process for the removal of chlorthalidone: A new alternative for water treatment. <i>Chemical Engineering Journal</i> , 2016 , 306, 512-521	14.7	44
51	Solar light responsive bismuth doped titania with Ti ³⁺ for efficient photocatalytic degradation of flumequine: Synergistic role of peroxymonosulfate. <i>Chemical Engineering Journal</i> , 2020 , 384, 123255	14.7	42
50	Gamma irradiation induced degradation of diclofenac in aqueous solution: Kinetics, role of reactive species and influence of natural water parameters. <i>Journal of Environmental Chemical Engineering</i> , 2016 , 4, 2573-2584	6.8	38
49	In-situ dual applications of ionic liquid coated Co ²⁺ and Fe ³⁺ co-doped TiO ₂ : Superior photocatalytic degradation of ofloxacin at pilot scale level and enhanced peroxidase like activity for calorimetric biosensing. <i>Journal of Molecular Liquids</i> , 2019 , 282, 275-285	6	37
48	VUV-Photocatalytic Degradation of Bezafibrate by Hydrothermally Synthesized Enhanced {001} Facets TiO ₂ /Ti Film. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 118-27	2.8	36
47	Nano zerovalent zinc catalyzed peroxymonosulfate based advanced oxidation technologies for treatment of chlorpyrifos in aqueous solution: A semi-pilot scale study. <i>Journal of Cleaner Production</i> , 2020 , 246, 119032	10.3	36
46	Influence of acids, bases and surfactants on the photocatalytic degradation of a model dye rhodamine B. <i>Journal of Molecular Liquids</i> , 2017 , 236, 395-403	6	32
45	Uptake of heavy metal ions from aqueous media by hydrogels and their conversion to nanoparticles for generation of a catalyst system: two-fold application study.. <i>RSC Advances</i> , 2018 , 8, 14787-14797	3.7	31
44	Synthesis of nitrogen-doped Ceria nanoparticles in deep eutectic solvent for the degradation of sulfamethaxazole under solar irradiation and additional antibacterial activities. <i>Chemical Engineering Journal</i> , 2020 , 394, 124869	14.7	29
43	Removal of Acid Yellow 17 Dye by Fenton Oxidation Process. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 507-525	3.1	27
42	Removal efficiency and economic cost comparison of hydrated electron-mediated reductive pathways for treatment of bromate. <i>Chemical Engineering Journal</i> , 2017 , 320, 523-531	14.7	26
41	Synergistic effects of bismuth coupling on the reactivity and reusability of zerovalent iron nanoparticles for the removal of cadmium from aqueous solution. <i>Science of the Total Environment</i> , 2019 , 669, 333-341	10.2	26
40	Ag-loaded thermo-sensitive composite microgels for enhanced catalytic reduction of methylene blue. <i>Nanotechnology for Environmental Engineering</i> , 2017 , 2, 1	5.1	26
39	Biomedical and photocatalytic applications of biosynthesized silver nanoparticles: Ecotoxicology study of brilliant green dye and its mechanistic degradation pathways. <i>Journal of Molecular Liquids</i> , 2020 , 319, 114114	6	26
38	Pyrolysis of waste tire rubber: Influence of temperature on pyrolysates yield. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 3469-3473	6.8	25

37	Toxicities, kinetics and degradation pathways investigation of ciprofloxacin degradation using iron-mediated H ₂ O ₂ based advanced oxidation processes. <i>Chemical Engineering Research and Design</i> , 2018 , 117, 473-482	5.5	25
36	The interaction of a model active pharmaceutical with cationic surfactant and the subsequent design of drug based ionic liquid surfactants. <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 117-24	9.3	24
35	Surface modification of colloidal silica particles using cationic surfactant and the resulting adsorption of dyes. <i>Journal of Molecular Liquids</i> , 2019 , 274, 673-680	6	24
34	TiO ₂ nanotubes doped poly(vinylidene fluoride) polymer membranes (PVDF/TNT) for efficient photocatalytic degradation of brilliant green dye. <i>Journal of Environmental Chemical Engineering</i> , 2019 , 7, 103291	6.8	23
33	Effect of Isopropanol on Microstructure and Activity of TiO ₂ Films with Dominant {001} Facets for Photocatalytic Degradation of Bezafrate. <i>International Journal of Photoenergy</i> , 2014 , 2014, 1-11	2.1	21
32	Nano-zerovalent copper as a Fenton-like catalyst for the degradation of ciprofloxacin in aqueous solution. <i>Journal of Water Process Engineering</i> , 2020 , 37, 101325	6.7	20
31	Industrial ceramic waste in Pakistan, valuable material for possible applications. <i>Journal of Cleaner Production</i> , 2016 , 139, 1520-1528	10.3	20
30	Exhaustive Photocatalytic Lindane Degradation by Combined Simulated Solar Light-Activated Nanocrystalline TiO ₂ and Inorganic Oxidants. <i>Catalysts</i> , 2019 , 9, 425	4	18
29	Degradation of Crystal Violet Dye by Fenton and Photo-Fenton Oxidation Processes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1771-1786	3.1	18
28	Advanced Oxidation and Reduction Processes 2019 , 135-164		17
27	Gamma radiolytic decomposition of endosulfan in aerated solution: the role of carbonate radical. <i>Environmental Science and Pollution Research</i> , 2016 , 23, 12362-71	5.1	16
26	Comparative Study of Kinetics of the Thermal Decomposition of Polypropylene Using Different Methods. <i>Advances in Polymer Technology</i> , 2018 , 37, 1168-1175	1.9	15
25	Fabrication of Ag and Au nanoparticles in cross-linked polymer microgels for their comparative catalytic study. <i>Materials Science-Poland</i> , 2017 , 35, 651-659	0.6	14
24	Bismuth-Doped Nano Zerovalent Iron: A Novel Catalyst for Chloramphenicol Degradation and Hydrogen Production. <i>ACS Omega</i> , 2020 , 5, 30610-30624	3.9	13
23	Ionic liquid as a moderator for improved sensing properties of TiO ₂ nanostructures for the detection of acetone biomarker in diabetes mellitus. <i>Journal of Molecular Liquids</i> , 2019 , 294, 111681	6	12
22	Synthesis and characterization of polyaniline/zirconium dioxide and polyaniline/berium dioxide composites with enhanced photocatalytic degradation of rhodamine B dye. <i>Chemical Papers</i> , 2018 , 72, 2523-2538	1.9	12
21	HYDROXYL RADICAL BASED DEGRADATION OF CIPROFLOXACIN IN AQUEOUS SOLUTION. <i>Journal of the Chilean Chemical Society</i> , 2016 , 61, 2949-2953	2.5	12
20	A novel route for catalytic activation of peroxymonosulfate by oxygen vacancies improved bismuth-doped titania for the removal of recalcitrant organic contaminant. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 23368-23385	5.1	11

19	Mechanistic investigations on the removal of diclofenac sodium by UV/SO/Fe, UV/HSO/Fe and UV/HO/Fe-based advanced oxidation processes. <i>Environmental Technology (United Kingdom)</i> , 2021 , 42, 3995-4005	2.6	10
18	Thermal decomposition study of polyvinyl chloride in the presence of commercially available oxides catalysts. <i>Advances in Polymer Technology</i> , 2018 , 37, 2336-2343	1.9	10
17	Photocatalytic and biomedical investigation of green synthesized NiONPs: Toxicities and degradation pathways of Congo red dye. <i>Surfaces and Interfaces</i> , 2021 , 23, 100944	4.1	9
16	Acid fuchsin dosimeter: a potential dosimeter for food irradiation dosimetry. <i>Journal of Food Measurement and Characterization</i> , 2019 , 13, 707-715	2.8	9
15	Advanced oxidation processes for the treatment of contaminants of emerging concern 2020 , 299-365		7
14	Mechanism of the oxidation of 1-(ferrocenyl)-ethanone/ethanol by dicyanobis(phenanthroline)iron(III). <i>Arabian Journal of Chemistry</i> , 2019 , 12, 4240-4250	5.9	6
13	Degradation of Acetaminophen in Aqueous Media by H ₂ O ₂ Assisted Gamma Irradiation Process. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 545-558	3.1	5
12	Micellar Supported Ultrafiltration of Malachite Green: Experimental Verification of Theoretical Approach. <i>Zeitschrift Fur Physikalische Chemie</i> , 2019 , 233, 289-301	3.1	5
11	Ionic liquid functionalized nano-zerovalent cerium for catalytic degradation of carbamazepine and colorimetric sensing of H ₂ O ₂ . <i>Journal of Water Process Engineering</i> , 2021 , 40, 101964	6.7	4
10	Thermodynamic aspect: kinetics of the reduction of dicyanobis(phen)iron(III) by acetylferrocene and methylferrocenemethanol. <i>Chemical Papers</i> , 2018 , 72, 883-893	1.9	3
9	Preconcentration of cadmium and manganese in biological samples based on a novel restricted access sorbents. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 48, 180-185	6.3	1
8	Exploring the potential of nano-zerovalent copper modified biochar for the removal of ciprofloxacin from water. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021 , 16, 100604 ³³		1
7	RESPONSIVE POLYMER HYBRID GEL CROSS-LINKED BY N,N-(1,2-DIHYDROXYETHYLENE) BISACRYLAMIDE FOR CATALYTIC APPLICATION. <i>Journal of the Chilean Chemical Society</i> , 2016 , 61, 3061-3065	3.5	1
6	Competition Kinetics: An Experimental Approach 2018 ,		1
5	Enhanced solar light photocatalytic performance of Fe-ZnO in the presence of HO, SO, and HSO for degradation of chlorpyrifos from agricultural wastes: Toxicities investigation. <i>Chemosphere</i> , 2022 , 287, 132331	8.4	1
4	Development of zerovalent iron and titania (Fe/TiO) composite for oxidative degradation of dichlorophene in aqueous solution: synergistic role of peroxymonosulfate (HSO).. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	1
3	Solar light induced photocatalytic activation of peroxymonosulfate by ultra-thin Ti ³⁺ self-doped Fe ₂ O ₃ /TiO ₂ nanoflakes for the degradation of naphthalene. <i>Applied Catalysis B: Environmental</i> , 2022 , 315, 121532	21.8	1
2	Recent Advances in the MXenes for Photocatalytic and Hydrogen Production Applications 2021 , 1-42		

1 Engineered magnetic nanoparticles for environmental remediation **2022**, 499-524