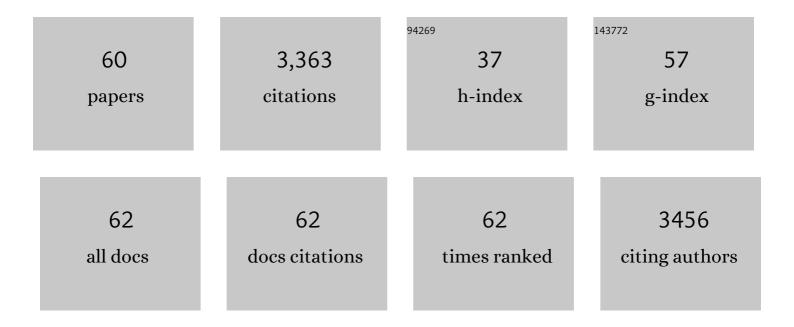
Rajkishore K Patel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Evaluation of removal efficiency of fluoride from aqueous solution using quick lime. Journal of Hazardous Materials, 2007, 143, 303-310.	6.5	231
2	Adsorption of methylene blue on chemically modified lychee seed biochar: Dynamic, equilibrium, and thermodynamic study. Journal of Molecular Liquids, 2020, 315, 113743.	2.3	193
3	Adsorption studies of arsenic(III) removal from water by zirconium polyacrylamide hybrid material (ZrPACM-43). Water Resources and Industry, 2013, 4, 51-67.	1.9	155
4	Neutralization of red mud using CO2 sequestration cycle. Journal of Hazardous Materials, 2010, 179, 28-34.	6.5	145
5	Synthesis and physicochemical characterization of Zn/Al chloride layered double hydroxide and evaluation of its nitrate removal efficiency. Desalination, 2010, 256, 120-128.	4.0	132
6	Removal of Cr (VI) from aqueous solution by Eichhornia crassipes root biomass-derived activated carbon. Chemical Engineering Journal, 2012, 185-186, 71-81.	6.6	130
7	Nitrate sorption by thermally activated Mg/Al chloride hydrotalcite-like compound. Journal of Hazardous Materials, 2009, 169, 524-531.	6.5	104
8	Synthesis of Polypyrrole-Modified Layered Double Hydroxides for Efficient Removal of Cr(VI). Journal	1.0	93
9	Physicochemical characterization of hydroxyapatite and its application towards removal of nitrate from water. Journal of Environmental Management, 2010, 91, 1883-1891.	3.8	92
10	Thermal activation of basic oxygen furnace slag and evaluation of its fluoride removal efficiency. Chemical Engineering Journal, 2011, 169, 68-77.	6.6	87
11	Comprehensive Understanding of the Kinetics and Mechanism of Fluoride Removal over a Potent Nanocrystalline Hydroxyapatite Surface. ACS Omega, 2017, 2, 8118-8128.	1.6	75
12	Cerium phosphate polypyrrole flower like nanocomposite: A recyclable adsorbent for removal of Cr(VI) by adsorption combined with in-situ chemical reduction. Journal of Industrial and Engineering Chemistry, 2021, 99, 55-67.	2.9	74
13	Removal of Pb(II) from aqueous solution by acid activated red mud. Journal of Environmental Chemical Engineering, 2013, 1, 1315-1324.	3.3	70
14	Removal of hydrogen sulfide using red mud at ambient conditions. Fuel Processing Technology, 2011, 92, 1587-1592.	3.7	69
15	Fluoride removal in waters using ionic liquid-functionalized alumina as a novel adsorbent. Journal of Cleaner Production, 2017, 151, 303-318.	4.6	67
16	Adsorption of Zn(II) on activated red mud: Neutralized by CO2. Desalination, 2011, 266, 93-97.	4.0	66
17	Facile synthesis of poly o-toluidine modified lanthanum phosphate nanocomposite as a superior adsorbent for selective fluoride removal: A mechanistic and kinetic study. Chemosphere, 2020, 252, 126551.	4.2	66
18	Investigating the selectivity and interference behavior for detoxification of Cr(VI) using lanthanum phosphate polyaniline nanocomposite via adsorption-reduction mechanism. Chemosphere, 2021, 278, 130507.	4.2	64

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19	Arsenate removal from aqueous solution by cellulose-carbonated hydroxyapatite nanocomposites. Journal of Hazardous Materials, 2011, 189, 755-763.	6.5	63
20	Physicochemical characterization and adsorption behavior of Ca/Al chloride hydrotalcite-like compound towards removal of nitrate. Journal of Hazardous Materials, 2011, 190, 659-668.	6.5	62
21	Adsorption of safranin-O dye on CO ₂ neutralized activated red mud waste: process modelling, analysis and optimization using statistical design. RSC Advances, 2015, 5, 42294-42304.	1.7	61
22	Synthesis and characterization of magnetic bio-adsorbent developed from Aegle marmelos leaves for removal of As(V) from aqueous solutions. Environmental Science and Pollution Research, 2019, 26, 946-958.	2.7	61
23	Kendu (Diospyros melanoxylon Roxb) fruit peel activated carbon—an efficient bioadsorbent for methylene blue dye: equilibrium, kinetic, and thermodynamic study. Environmental Science and Pollution Research, 2020, 27, 22579-22592.	2.7	61
24	Cigarette soot activated carbon modified with Fe3O4 nanoparticles as an effective adsorbent for As(III) and As(V): Material preparation, characterization and adsorption mechanism study. Journal of Molecular Liquids, 2017, 243, 395-405.	2.3	59
25	Interactive Fe2O3/porous SiO2 nanospheres for photocatalytic degradation of organic pollutants: Kinetic and mechanistic approach. Chemosphere, 2019, 234, 596-607.	4.2	56
26	Modified Thorium Oxide Polyaniline Core–Shell Nanocomposite and Its Application for the Efficient Removal of Cr(VI). Journal of Chemical & Engineering Data, 2019, 64, 1294-1304.	1.0	54
27	Polyacrylamide thorium (IV) phosphate as an important lead selective fibrous ion exchanger: Synthesis, characterization and removal study. Journal of Hazardous Materials, 2008, 156, 509-520.	6.5	53
28	Synthesis of thorium–ethanolamine nanocomposite by the co-precipitation method and its application for Cr(<scp>vi</scp>) removal. New Journal of Chemistry, 2018, 42, 5556-5569.	1.4	51
29	Application of Box–Behnken Design in response surface methodologyÂfor adsorptive removal of arsenic from aqueous solutionÂusing CeO2/Fe2O3/graphene nanocomposite. Materials Chemistry and Physics, 2018, 207, 233-242.	2.0	51
30	Studies on the removal of arsenic (III) from water by a novel hybrid material. Journal of Hazardous Materials, 2011, 192, 899-908.	6.5	49
31	Removal efficiency of fluoride by novel Mg-Cr-Cl layered double hydroxide by batch process from water. Journal of Environmental Sciences, 2013, 25, 993-1000.	3.2	49
32	Titania coated silica nanocomposite prepared via encapsulation method for the degradation of Safranin-O dye from aqueous solution: Optimization using statistical design. Water Resources and Industry, 2019, 22, 100071.	1.9	47
33	Enhanced removal of Cr(VI) by cerium oxide polyaniline composite: Optimization and modeling approach using response surface methodology and artificial neural networks. Journal of Environmental Chemical Engineering, 2015, 3, 870-885.	3.3	46
34	Utilization of activated CO2-neutralized red mud for removal of arsenate from aqueous solutions. Journal of Hazardous Materials, 2010, 179, 1007-1013.	6.5	45
35	Fluoride adsorption from aqueous solution by a hybrid thorium phosphate composite. Chemical Engineering Journal, 2011, 166, 978-985.	6.6	43
36	Neuro fuzzy approach for arsenic(III) and chromium(VI) removal from water. Journal of Water Process Engineering, 2015, 5, 58-75.	2.6	43

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37	Removal of safranin-O dye from aqueous solution using modified red mud: kinetics and equilibrium studies. RSC Advances, 2015, 5, 78491-78501.	1.7	41
38	Removal of lead (II) from aqueous environment by a fibrous ion exchanger: Polycinnamamide thorium (IV) phosphate. Journal of Hazardous Materials, 2009, 172, 707-715.	6.5	39
39	Removal of As(V) from aqueous solution by Ce-Fe bimetal mixed oxide. Journal of Environmental Chemical Engineering, 2016, 4, 2892-2899.	3.3	34
40	Removal efficiency of Pb(II) from aqueous solution by 1-alkyl-3-methylimidazolium bromide ionic liquid mediated mesoporous silica. Journal of Environmental Chemical Engineering, 2015, 3, 1356-1364.	3.3	32
41	Novel visible-light-driven cobalt loaded neutralized red mud (Co/NRM) composite with photocatalytic activity toward methylene blue dye degradation. Journal of Industrial and Engineering Chemistry, 2016, 40, 72-82.	2.9	31
42	Removal of As(III) from Aqueous Solution Using Fe3O4 Nanoparticles: Process Modeling and Optimization Using Statistical Design. Water, Air, and Soil Pollution, 2017, 228, 1.	1.1	31
43	Efficient removal of Cr(VI) by polyaniline modified biochar from date (Phoenix dactylifera) seed. Groundwater for Sustainable Development, 2021, 15, 100653.	2.3	31
44	Equilibrium and kinetic studies of Cd(II) ion adsorption from aqueous solution by activated red mud. Desalination and Water Treatment, 2016, 57, 14251-14265.	1.0	28
45	Synthesis and characterization of an eco-friendly composite of jute fiber and Fe 2 O 3 nanoparticles and its application as an adsorbent for removal of As(V) from water. Journal of Molecular Liquids, 2017, 237, 313-321.	2.3	28
46	Fluoride removal from aqueous solutions using cerium loaded mesoporous zirconium phosphate. New Journal of Chemistry, 2015, 39, 7300-7308.	1.4	27
47	Modeling of Arsenic (III) Removal by Evolutionary Genetic Programming and Least Square Support Vector Machine Models. Environmental Processes, 2015, 2, 145-172.	1.7	24
48	Adsorption studies of chromium (VI) removal from water by lanthanum diethanolamine hybrid material. Environmental Technology (United Kingdom), 2014, 35, 817-832.	1.2	23
49	Synthesis of hydroxyapatite-zirconia nanocomposite through sonochemical route: A potential catalyst for degradation of phenolic compounds. Journal of Environmental Chemical Engineering, 2018, 6, 6504-6515.	3.3	20
50	Evaluation of Phosphate Removal Efficiency from Aqueous Solution by Polypyrrole/BOF Slag Nanocomposite. Separation Science and Technology, 2014, 49, 2668-2680.	1.3	19
51	Microwave assisted synthesis of polycinnamamide Mg/Al mixed oxide nanocomposite and its application towards the removal of arsenate from aqueous medium. Chemical Engineering Journal, 2013, 230, 48-58.	6.6	17
52	Novel Fe ₃ O ₄ â€Modified Biochar Derived from Citrus Bergamia Peel: A Green Synthesis Approach for Adsorptive Removal of Methylene Blue. ChemistrySelect, 2022, 7, .	0.7	17
53	Mechanistic insight into the adsorption of mercury (II) on the surface of red mud supported nanoscale zero-valent iron composite. Journal of Contaminant Hydrology, 2022, 246, 103959.	1.6	16
54	Solvothermal synthesis of greigite (Fe ₃ S ₄)– Conducting polypyrrole nanocomposite and its application towards arsenic removal. Separation Science and Technology, 2017, 52, 2837-2854.	1.3	12

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55	Polyaniline/basic oxygen furnace slag nanocomposite as a viable adsorbent for the sorption of fluoride from aqueous medium: equilibrium, thermodynamic and kinetic study. Desalination and Water Treatment, 2015, 54, 450-463.	1.0	8
56	A novel approach in red mud neutralization using cow dung. Environmental Science and Pollution Research, 2018, 25, 12841-12848.	2.7	6
57	Visible light active Zr- and N-doped TiO ₂ coupled g-C ₃ N ₄ heterojunction nanosheets as a photocatalyst for the degradation of bromoxynil and Rh B along with the H ₂ evolution process. Nanoscale Advances, 2021, 3, 6468-6481.	2.2	5
58	Removal of malachite green dye from aqueous solution using mesoporous silica synthesized from 1-octyl-3-methylimidazolium chloride ionic liquid. AIP Conference Proceedings, 2016, , .	0.3	3
59	Phosphorus sorption behaviour of the largest brackish water lagoon, South Asia. Journal of Earth System Science, 2021, 130, 1.	0.6	1
60	PREPARATION AND CHARACTERIZATION OF MESOPOROUS CERIUM OXIDE FOR TOXIC AS(V) REMOVAL: PERFORMANCE AND MECHANISTIC STUDIE. Journal of Environmental Engineering and Landscape Management, 2022, 30, 321-330.	0.4	1