

Yanyang Zhang

List of Publications by Year in descending order

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20
papers

1,491
citations

471509

17
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1294
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective Phosphate Removal from Water and Wastewater using Sorption: Process Fundamentals and Removal Mechanisms. <i>Environmental Science & Technology</i> , 2020, 54, 50-66.	10.0	437
2	Enhanced Phosphate Removal by Nanosized Hydrated La(III) Oxide Confined in Cross-linked Polystyrene Networks. <i>Environmental Science & Technology</i> , 2016, 50, 1447-1454.	10.0	265
3	Integrating water quality and operation into prediction of water production in drinking water treatment plants by genetic algorithm enhanced artificial neural network. <i>Water Research</i> , 2019, 164, 114888.	11.3	98
4	Unexpected Favorable Role of Ca ²⁺ in Phosphate Removal by Using Nanosized Ferric Oxides Confined in Porous Polystyrene Beads. <i>Environmental Science & Technology</i> , 2019, 53, 365-372.	10.0	88
5	Efficient defluoridation of water using reusable nanocrystalline layered double hydroxides impregnated polystyrene anion exchanger. <i>Water Research</i> , 2016, 102, 109-116.	11.3	87
6	Arsenate Adsorption by Hydrated Ferric Oxide Nanoparticles Embedded in Cross-linked Anion Exchanger: Effect of the Host Pore Structure. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 3012-3020.	8.0	85
7	Modeling batch and column phosphate removal by hydrated ferric oxide-based nanocomposite using response surface methodology and artificial neural network. <i>Chemical Engineering Journal</i> , 2014, 249, 111-120.	12.7	77
8	Structural Evolution of Lanthanum Hydroxides during Long-Term Phosphate Mitigation: Effect of Nanoconfinement. <i>Environmental Science & Technology</i> , 2021, 55, 665-676.	10.0	50
9	Self-enhanced ozonation of benzoic acid at acidic pHs. <i>Water Research</i> , 2015, 73, 9-16.	11.3	46
10	Fluoride uptake by three lanthanum based nanomaterials: Behavior and mechanism dependent upon lanthanum species. <i>Science of the Total Environment</i> , 2019, 683, 609-616.	8.0	45
11	Enhanced Defluoridation Using Novel Millisphere Nanocomposite of La-Doped Li-Al Layered Double Hydroxides Supported by Polymeric Anion Exchanger. <i>Scientific Reports</i> , 2018, 8, 11741.	3.3	41
12	Struvite-based phosphorus recovery from the concentrated bioeffluent by using HFO nanocomposite adsorption: Effect of solution chemistry. <i>Chemosphere</i> , 2015, 141, 227-234.	8.2	29
13	Utilization of gel-type polystyrene host for immobilization of nano-sized hydrated zirconium oxides: A new strategy for enhanced phosphate removal. <i>Chemosphere</i> , 2021, 263, 127938.	8.2	26
14	Enhanced HO production from ozonation activated by EDTA. <i>Chemical Engineering Journal</i> , 2016, 288, 562-568.	12.7	24
15	Validation of pilot-scale phosphate polishing removal from surface water by lanthanum-based polymeric nanocomposite. <i>Chemical Engineering Journal</i> , 2021, 412, 128630.	12.7	22
16	Electro-peroxone enables efficient Cr removal and recovery from Cr(III) complexes and inhibits intermediate Cr(VI) generation in wastewater: Performance and mechanism. <i>Water Research</i> , 2022, 218, 118502.	11.3	22
17	New insights into the fractionation of effluent organic matter on diagnosis of key composition affecting advanced phosphate removal by Zr-based nanocomposite. <i>Water Research</i> , 2020, 186, 116299.	11.3	17
18	Facet-dependent phosphate adsorptive reactivity by lanthanum hydroxides of different crystal structure: Role of surface hydroxyl groups. <i>Applied Surface Science</i> , 2021, 538, 147910.	6.1	17

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19	Scaled-up development of magnetically recyclable Fe ₃ O ₄ /La(OH) ₃ composite for river water phosphate removal: From bench-scale to pilot-scale study. <i>Science of the Total Environment</i> , 2021, 791, 148281.	8.0	15
20	Scenario oriented strategies for phosphorus management by using environmental nanotechnology. <i>Current Opinion in Chemical Engineering</i> , 2021, 34, 100720.	7.8	0