

Chemical removal of nitrate from water by aluminum-i

Chemosphere

166, 197-202

DOI: [10.1016/j.chemosphere.2016.09.102](https://doi.org/10.1016/j.chemosphere.2016.09.102)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Zero-valent iron-facilitated reduction of nitrate: Chemical kinetics and reaction pathways. <i>Science of the Total Environment</i> , 2017, 598, 1140-1150.	3.9	63
2	Nitrate reduction in water by aluminum alloys particles. <i>Journal of Environmental Management</i> , 2017, 196, 666-673.	3.8	49
4	Mechanism of Nitrogen Removal from Aqueous Solutions Using Natural Scoria. <i>Water (Switzerland)</i> , 2017, 9, 341.	1.2	4
5	Optimal managing the coastal aquifer for seawater desalination and meeting nitrates level of drinking water. <i>Desalination</i> , 2018, 436, 63-68.	4.0	8
6	Development and Application of Graphene Oxide/Poly-Amidoamines Dendrimers (GO/PAMAMs) Nano-Composite for Nitrate Removal from Aqueous Solutions. <i>Environmental Processes</i> , 2018, 5, 41-64.	1.7	12
7	Development and Reuse of Amine-Grafted Chitosan Hybrid Beads in the Retention of Nitrate and Phosphate. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 147-158.	1.0	83
8	Effect of precursor type on the reduction of concentrated nitrate using zero-valent copper and sodium borohydride. <i>Water Science and Technology</i> , 2018, 77, 114-122.	1.2	4
9	Enhanced recovery of low-grade iron ore by selective flocculation method. <i>Journal of Dispersion Science and Technology</i> , 2018, 39, 1075-1079.	1.3	8
10	Rapid removal of chloroform, carbon tetrachloride and trichloroethylene in water by aluminum-iron alloy particles. <i>Environmental Technology (United Kingdom)</i> , 2018, 39, 2882-2890.	1.2	10
11	Removal of nitrate from water by acid-washed zero-valent iron/ferrous ion/hydrogen peroxide: influencing factors and reaction mechanism. <i>Water Science and Technology</i> , 2018, 77, 525-533.	1.2	8
12	Abatement of Nitrate by Bismuth Based Inorganic Media. , 2018, , .		0
13	Nitrate removal from groundwater: a review of natural and engineered processes. <i>Journal of Water Supply: Research and Technology - AQUA</i> , 2018, 67, 885-902.	0.6	89
14	Enhancement of Cr(VI) removal by mechanically activated micron-scale zero-valent aluminum (MA-mZVAL): Performance and mechanism especially at near-neutral pH. <i>Chemical Engineering Journal</i> , 2018, 353, 760-768.	6.6	42
15	Microbial reduction of nitrate in the presence of zero-valent iron. <i>Science of the Total Environment</i> , 2019, 646, 1195-1203.	3.9	72
16	Enhancing surface gully erosion of micron-sized zero-valent aluminum (mZVAL) for Cr(VI) removal: Performance and mechanism in the presence of carbonate buffer. <i>Journal of Cleaner Production</i> , 2019, 238, 117943.	4.6	24
17	Synthesis of silver microfibers with ultrahigh aspect ratio by galvanic replacement reaction. <i>Materials Chemistry and Physics</i> , 2019, 237, 121872.	2.0	2
18	Simultaneous removal of nitrate, copper and hexavalent chromium from water by aluminum-iron alloy particles. <i>Journal of Contaminant Hydrology</i> , 2019, 227, 103541.	1.6	11
19	Aluminum Building Scrap Wire, Take-Out Food Container, Potato Peels and Bagasse as Valueless Waste Materials for Nitrate Removal from Water supplies. <i>Chemistry Africa</i> , 2019, 2, 143-162.	1.2	18

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20	Ultrasound assisted co-precipitation synthesis of Fe ₃ O ₄ / bentonite nanocomposite: Performance for nitrate, BOD and COD water treatment. <i>Journal of Water Process Engineering</i> , 2019, 31, 100870.	2.6	68
21	Nitrate reduction via micro-electrolysis on Zn-Ag bimetal combined with photo-assistance. <i>Science of the Total Environment</i> , 2019, 683, 89-97.	3.9	20
22	Concurrent transport and removal of nitrate, phosphate and pesticides in low-cost metal- and carbon-based materials. <i>Chemosphere</i> , 2019, 230, 84-91.	4.2	21
23	Selective Reduction of Nitrate into Nitrogen Using Cu/Fe Bimetal Combined with Sodium Sulfito. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5175-5185.	1.8	28
24	In Situ Hydrogenation of CO ₂ by Al/Fe and Zn/Cu Alloy Catalysts under Mild Conditions. <i>Chemical Engineering and Technology</i> , 2019, 42, 1223-1231.	0.9	12
25	Denitrification performance and microbial diversity of immobilized bacterial consortium treating nitrate micro-polluted water. <i>Bioresource Technology</i> , 2019, 281, 351-358.	4.8	67
26	Removal of 4-chlorophenol from polluted water by aluminum-iron alloys. <i>Water Science and Technology</i> , 2019, 80, 1099-1106.	1.2	3
27	Selective reduction of nitrate to nitrogen gas by novel Cu ₂ O-Cu ₀ @Fe ₀ composite combined with HCOOH under UV radiation. <i>Chemical Engineering Journal</i> , 2019, 359, 1195-1204.	6.6	62
28	Sonocatalytic reduction of nitrate using magnetic layered double hydroxide: Implications for removal mechanism. <i>Chemosphere</i> , 2019, 218, 799-809.	4.2	6
29	Optimization of the N ₂ generation selectivity in aqueous nitrate reduction using internal circulation micro-electrolysis. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 3010-3016.	1.7	8
30	Selective removal of nitrate ion using a novel activated carbon composite carbon electrode in capacitive deionization. <i>Separation and Purification Technology</i> , 2019, 212, 728-736.	3.9	50
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33	Removal Kinetics of Heavy Metals and Nutrients from Stormwater by Different Filter Materials. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	3
34	Use of PdCu catalysts supported on zirconia-ceria based supports for the elimination of oxyanions present in water. <i>Catalysis Today</i> , 2021, 372, 154-163.	2.2	7
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36	Composite of chitosan and bentonite cladding Fe-Al bimetal: Effective removal of nitrate and by-products from wastewater. <i>Environmental Research</i> , 2020, 184, 109336.	3.7	24
37	Intensified water denitrification by means of a spinning disk reactor and stirred tank in series: Kinetic modelling and computational fluid dynamics. <i>Journal of Water Process Engineering</i> , 2020, 34, 101147.	2.6	34

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38	Determination of ammonia content in various drinking water sources in Malappuram District, Kerala and its removal by adsorption using agricultural waste materials. <i>Materials Today: Proceedings</i> , 2021, 45, 811-819.	0.9	6
39	ALLODUST augmented activated sludge single batch anaerobic reactor (AS-SBAnR) for high concentration nitrate removal from agricultural wastewater. <i>Science of the Total Environment</i> , 2021, 752, 141905.	3.9	8
40	Role of porous polymer carriers and iron-carbon bioreactor combined micro-electrolysis and biological denitrification in efficient removal of nitrate from wastewater under low carbon to nitrogen ratio. <i>Bioresource Technology</i> , 2021, 321, 124447.	4.8	41
41	Study on reaction mechanism and Langmuir-Hinshelwood kinetic model of catalytic denitrification by Fe ⁰ and bimetallic catalyst. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2021, 56, 501-507.	0.9	2
42	The sequestration of aqueous Cr(VI) by zero valent iron-based materials: From synthesis to practical application. <i>Journal of Cleaner Production</i> , 2021, 312, 127678.	4.6	49
43	Integrated ion exchange-based system for nitrate and sulfate removal from water of different matrices: Analysis and optimization using response surface methodology and Taguchi experimental design techniques. <i>Chemical Engineering Research and Design</i> , 2021, 153, 500-517.	2.7	15
44	Production of hydrogen, active zerovalent iron and ferrous oxide octahedron by alkaline etching Al-Fe alloys. <i>Materials Chemistry and Physics</i> , 2021, 270, 124789.	2.0	4
45	Synergistically enhanced nitrate removal by capacitive deionization with activated carbon/PVDF/polyaniline/ZrO ₂ composite electrode. <i>Separation and Purification Technology</i> , 2021, 274, 119108.	3.9	12
46	Nitrates in the environment: A critical review of their distribution, sensing techniques, ecological effects and remediation. <i>Chemosphere</i> , 2022, 287, 131996.	4.2	92
47	Porous floating Meretrix lusoria shell composite pellets immobilized with nitrate-reducing bacteria for treatment of phosphate and nitrate simultaneously from domestic wastewater. <i>Chemical Engineering Journal</i> , 2022, 429, 131463.	6.6	2
48	Selective reduction of nitrate into nitrogen at neutral pH range by iron/copper bimetal coupled with formate/ferric ion and ultraviolet radiation. <i>Separation and Purification Technology</i> , 2020, 248, 117061.	3.9	22
49	REMOVAL OF NITRATE FROM DRINKING WATER BY USING PdCu STRUCTURED CATALYSTS BASED ON CORDIERITE MONOLITHS. <i>Brazilian Journal of Chemical Engineering</i> , 2019, 36, 705-715.	0.7	6
50	A critical review of existing mechanisms and strategies to enhance N ₂ selectivity in groundwater nitrate reduction. <i>Water Research</i> , 2022, 209, 117889.	5.3	31
51	Effective and selective conversion of nitrate from aqueous solutions to nitrogen gas under neutral pH condition using Al/Cu bimetal-sulfamic acid reduction method. <i>Separation and Purification Technology</i> , 2022, 287, 120618.	3.9	3
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53	Iron-Based Nanocatalysts for Electrochemical Nitrate Reduction. <i>Small Methods</i> , 2022, 6, .	4.6	48
54	Synergistic improvement of nitrogen and phosphorus removal in constructed wetlands by the addition of solid iron substrates and ferrous irons. <i>Fundamental Research</i> , 2022, , .	1.6	3
55	Pathway and mechanism study on improvement of N ₂ selectivity of catalytic denitrification. <i>Journal of Saudi Chemical Society</i> , 2023, 27, 101577.	2.4	0

