Konstantinos Simeonidis

List of Publications by Year
in descending order

103 papers	3,979 citations	126907 33 h-index	123424 61 g-index
105 all docs	105 docs citations	105 times ranked	5192 citing authors

#	Article	IF	Citations
1	Learning from Nature to Improve the Heat Generation of Iron-Oxide Nanoparticles for Magnetic Hyperthermia Applications. Scientific Reports, 2013, 3, 1652.	3.3	442
2	Multiplying Magnetic Hyperthermia Response by Nanoparticle Assembling. Journal of Physical Chemistry C, 2014, 118, 5927-5934.	3.1	230
3	Inorganic engineered nanoparticles in drinking water treatment: a critical review. Environmental Science: Water Research and Technology, 2016, 2, 43-70.	2.4	187
4	Influence of dipolar interactions on hyperthermia properties of ferromagnetic particles. Journal of Applied Physics, 2010, 108, .	2.5	160
5	Adjustable Hyperthermia Response of Selfâ€Assembled Ferromagnetic Feâ€MgO Coreâ€"Shell Nanoparticles by Tuning Dipoleâ€"Dipole Interactions. Advanced Functional Materials, 2012, 22, 3737-3744.	14.9	134
6	Arrangement at the nanoscale: Effect on magnetic particle hyperthermia. Scientific Reports, 2016, 6, 37934.	3.3	131
7	Size-Dependent Mechanisms in AC Magnetic Hyperthermia Response of Iron-Oxide Nanoparticles. IEEE Transactions on Magnetics, 2012, 48, 1320-1323.	2.1	124
8	Magnetic separation of hematite-coated Fe3O4 particles used as arsenic adsorbents. Chemical Engineering Journal, 2011, 168, 1008-1015.	12.7	110
9	Critical radius for exchange bias in naturally oxidized Fe nanoparticles. Physical Review B, 2006, 74, .	3.2	104
10	Occurrence of Cr(VI) in drinking water of Greece and relation to the geological background. Journal of Hazardous Materials, 2015, 281, 2-11.	12.4	104
11	In vitro application of Fe/MgO nanoparticles as magnetically mediated hyperthermia agents for cancer treatment. Journal of Magnetism and Magnetic Materials, 2011, 323, 775-780.	2.3	98
12	Kilogram-scale synthesis of iron oxy-hydroxides with improved arsenic removal capacity: Study of Fe(II) oxidationâ€"precipitation parameters. Water Research, 2012, 46, 5255-5267.	11.3	98
13	In-situ particles reorientation during magnetic hyperthermia application: Shape matters twice. Scientific Reports, 2016, 6, 38382.	3.3	92
14	Self-assembled multifunctional Fe/MgO nanospheres for magnetic resonance imaging and hyperthermia. Nanomedicine: Nanotechnology, Biology, and Medicine, 2010, 6, 362-370.	3.3	91
15	Tetravalent Manganese Feroxyhyte: A Novel Nanoadsorbent Equally Selective for As(III) and As(V) Removal from Drinking Water. Environmental Science & Technology, 2013, 47, 9699-9705.	10.0	89
16	A novel approach for arsenic adsorbents regeneration using MgO. Journal of Hazardous Materials, 2014, 265, 217-225.	12.4	77
17	Evaluation of nickel ferrite nanoparticles coated with oleylamine by NMR relaxation measurements and magnetic hyperthermia. Dalton Transactions, 2014, 43, 3626.	3.3	68
18	Ferrimagnetic nanocrystal assemblies as versatile magnetic particle hyperthermia mediators. Materials Science and Engineering C, 2016, 58, 187-193.	7.3	68

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19	In vitro application of Mn-ferrite nanoparticles as novel magnetic hyperthermia agents. Journal of Materials Chemistry B, 2014, 2, 8390-8398.	5.8	66
20	Controlled synthesis and phase characterization of Fe-based nanoparticles obtained by thermal decomposition. Journal of Magnetism and Magnetic Materials, 2007, 316, e1-e4.	2.3	64
21	Optimizing magnetic nanoparticles for drinking water technology: The case of Cr(VI). Science of the Total Environment, 2015, 535, 61-68.	8.0	61
22	Controlling the crystal structure of Ni nanoparticles by the use of alkylamines. Journal of Magnetism and Magnetic Materials, 2009, 321, 2723-2728.	2.3	55
23	How size, shape and assembly of magnetic nanoparticles give rise to different hyperthermia scenarios. Nanoscale, 2021, 13, 15631-15646.	5.6	53
24	Fe-based nanoparticles as tunable magnetic particle hyperthermia agents. Journal of Applied Physics, 2013, 114, .	2.5	52
25	The role of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0006.gif" overflow="scroll"><mml:msubsup><mml:mrow><mml:mi mathvariant="normal">SO</mml:mi></mml:mrow><mml:mrow><mml:mn>4</mml:mn></mml:mrow><mml:mrow><mml:mn>2</mm surface distribution in arsenic removal by iron oxy-hydroxides. Journal of Solid State Chemistry, 2014, 213, 145-151.	2.9	52
26	Enhanced biomedical heat-triggered carriers via nanomagnetism tuning in ferrite-based nanoparticles. Journal of Magnetism and Magnetic Materials, 2015, 381, 179-187.	2.3	46
27	Morphology influence on nanoscale magnetism of Co nanoparticles: Experimental and theoretical aspects of exchange bias. Physical Review B, 2011, 84, .	3.2	44
28	Controlling Magnetization Reversal and Hyperthermia Efficiency in Coreâ€“Shell Ironâ€“Iron Oxide Magnetic Nanoparticles by Tuning the Interphase Coupling. ACS Applied Nano Materials, 2020, 3, 4465-4476.	5.0	42
29	Evolution of Nd2Fe14B nanoparticles magnetism during surfactant-assisted ball-milling. Intermetallics, 2011, 19, 589-595.	3.9	37
30	On the passivation mechanism of Fe3O4 nanoparticles during Cr(VI) removal from water: A XAFS study. Applied Surface Science, 2016, 360, 1080-1086.	6.1	37
31	Mn-feroxyhyte: The role of synthesis conditions on As(III) and As(V) removal capacity. Chemical Engineering Journal, 2014, 251, 192-198.	12.7	36
32	Reductive precipitation and removal of Cr(VI) from groundwaters by pipe flocculation-microfiltration. Environmental Science and Pollution Research, 2018, 25, 12256-12262.	5.3	35
33	Fe₃O₄@NiFe_{<i>x</i>}O_{<i>y</i>} Nanoparticles with Enhanced Electrocatalytic Properties for Oxygen Evolution in Carbonate Electrolyte. ACS Applied Materials & Interfaces, 2016, 8, 29461-29469.	8.0	34
34	A versatile large-scale and green process for synthesizing magnetic nanoparticles with tunable magnetic hyperthermia features. RSC Advances, 2016, 6, 53107-53117.	3.6	33
35	Comparative study of As(V) removal by ferric coagulation and oxy-hydroxides adsorption: laboratory and full-scale case studies. Desalination and Water Treatment, 2013, 51, 2872-2880.	1.0	32
36	Tuning the magnetism of ferrite nanoparticles. Journal of Magnetism and Magnetic Materials, 2016, 415, 20-23.	2.3	30

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37	Continuous production of magnetic iron oxide nanocrystals by oxidative precipitation. Chemical Engineering Journal, 2020, 393, 124593.	12.7	29
38	Characterization and geochemistry of technogenic magnetic particles (TMPs) in contaminated industrial soils: Assessing health risk via ingestion. Geoderma, 2017, 295, 86-97.	5.1	28
39	Implementing nanoparticles for competitive drinking water purification. Environmental Chemistry Letters, 2019, 17, 705-719.	16.2	28
40	Structure effects on the magnetism of AgCo nanoparticles. Acta Materialia, 2006, 54, 5251-5260.	7.9	25
41	The use of Sn(II) oxy-hydroxides for the effective removal of Cr(VI) from water: Optimization of synthesis parameters. Science of the Total Environment, 2017, 605-606, 190-198.	8.0	25
42	The role of synthetic parameters in the magnetic behavior of relative large hcp Ni nanoparticles. Journal of Nanoparticle Research, 2011, 13, 1897-1908.	1.9	24
43	Sn(II) oxy-hydroxides as potential adsorbents for Cr(VI)-uptake from drinking water: An X-ray absorption study. Science of the Total Environment, 2016, 551-552, 246-253.	8.0	23
44	Spin-pumping through a varying-thickness MgO interlayer in Fe/Pt system. Applied Physics Letters, 2017, 110, .	3.3	23
45	Magnetic Nanoparticles for Water Purification. , 2019, , 521-552.		23
46	An X-ray absorption study of synthesis- and As adsorption-induced microstructural modifications in Fe oxy-hydroxides. Journal of Hazardous Materials, 2015, 298, 203-209.	12.4	22
47	Enhanced U(VI) removal from drinking water by nanostructured binary Fe/Mn oxy-hydroxides. Journal of Water Process Engineering, 2015, 7, 227-236.	5.6	22
48	Tunable AC Magnetic Hyperthermia Efficiency of Ni Ferrite Nanoparticles. IEEE Transactions on Magnetics, 2014, 50, 1-7.	2.1	21
49	Optimization of tetravalent manganese feroxyhyte's negative charge density: A high-performing mercury adsorbent from drinking water. Science of the Total Environment, 2017, 574, 482-489.	8.0	20
50	Efficiency of Iron-Based Oxy-Hydroxides in Removing Antimony from Groundwater to Levels below the Drinking Water Regulation Limits. Sustainability, 2017, 9, 238.	3.2	20
51	Structural and magnetic features of heterogeneously nucleated Fe-oxide nanoparticles. Journal of Magnetism and Magnetic Materials, 2008, 320, 1631-1638.	2.3	19
52	Cu-Zn powders as potential Cr(VI) adsorbents for drinking water. Journal of Hazardous Materials, 2013, 262, 606-613.	12.4	19
53	Monitoring the role of Mn and Fe in the As-removal efficiency of tetravalent manganese feroxyhyte nanoparticles from drinking water: An X-ray absorption spectroscopy study. Journal of Colloid and Interface Science, 2016, 477, 148-155.	9.4	19
54	Regeneration of arsenic spent adsorbents by Fe/<scp>MgO</scp> nanoparticles. Journal of Chemical Technology and Biotechnology, 2017, 92, 1876-1883.	3.2	19

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55	One-Step Route to Iron Oxide Hollow Nanocuboids by Cluster Condensation: Implementation in Water Remediation Technology. ACS Applied Materials & Interfaces, 2016, 8, 28599-28606.	8.0	17
56	Optimum nanoscale design in ferrite based nanoparticles for magnetic particle hyperthermia. RSC Advances, 2016, 6, 72918-72925.	3.6	17
57	Mercury removal from drinking water by single iron and binary iron-manganese oxyhydroxides. Desalination and Water Treatment, 2015, 54, 2082-2090.	1.0	16
58	Copper foams in water treatment technology: Removal of hexavalent chromium. Materials and Design, 2015, 87, 287-294.	7.0	15
59	Iron Oxide Nanoparticles as an Alternative to Antibiotics Additive on Extended Boar Semen. Nanomaterials, 2020, 10, 1568.	4.1	14
60	OXIDATION PROCESS OF Fe NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1143-1151.	1.9	12
61	Rapid small-scale column tests for Cr(VI) removal by granular magnetite. Water Science and Technology: Water Supply, 2016, 16, 525-532.	2.1	12
62	Tailoring the morphology of CoxPt1â^'x magnetic nanostructures. Journal of Magnetism and Magnetic Materials, 2009, 321, 3120-3125.	2.3	11
63	Potential application of inorganic sulfur reductants for Cr(VI) removal at sub-ppb level. Desalination and Water Treatment, 2015, 54, 2067-2074.	1.0	11
64	Kinetic modeling of AS(III) and AS(V) adsorption by a novel tetravalent manganese feroxyhyte. Journal of Colloid and Interface Science, 2015, 460, 1-7.	9.4	11
65	Exploring multifunctional potential of commercial ferrofluids by magnetic particle hyperthermia. Journal of Magnetism and Magnetic Materials, 2015, 380, 360-364.	2.3	11
66	Uptake of Sb(V) by Nano Fe3O4-Decorated Iron Oxy-Hydroxides. Water (Switzerland), 2019, 11, 181.	2.7	11
67	Mineralogy and Geochemistry of Ultramafic Rocks from Rachoni Magnesite Mine, Gerakini (Chalkidiki,) Tj ETQq1 1 0.784314 rgBT /Ov	2.0	11
68	EFFECT OF AIR EXPOSURE ON STRUCTURAL AND MAGNETIC FEATURES OF FeCo NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1161-1168.	1.9	10
69	Development of iron-based nanoparticles for Cr(VI) removal from drinking water. EPJ Web of Conferences, 2013, 40, 08007.	0.3	10
70	Improvement of Manganese Feroxyhyteâ€™s Surface Charge with Exchangeable Ca Ions to Maximize Cd and Pb Uptake from Water. Materials, 2020, 13, 1762.	2.9	9
71	Magnetic nanoparticles: An indicator of health risks related to anthropogenic airborne particulate matter. Environmental Pollution, 2021, 271, 116309.	7.5	9
72	Finding the Limits of Magnetic Hyperthermia on Core-Shell Nanoparticles Fabricated by Physical Vapor Methods. Magnetochemistry, 2021, 7, 49.	2.4	9

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73	Can commercial ferrofluids be exploited in AC magnetic hyperthermia treatment to address diverse biomedical aspects?. EPJ Web of Conferences, 2014, 75, 08002.	0.3	8
74	Enrichment and oral bioaccessibility of selected trace elements in fly ash-derived magnetic components. Environmental Science and Pollution Research, 2017, 24, 2337-2349.	5.3	8
75	Evaluation of boron uptake by anion exchange resins in tap and geothermal water matrix. Materials Today: Proceedings, 2018, 5, 27599-27606.	1.8	8
76	Magnetically recoverable nanoparticles for the simultaneous removal of Sb and As from water. Environmental Advances, 2020, 2, 100013.	4.8	8
77	Toxic and Microbiological Effects of Iron Oxide and Silver Nanoparticles as Additives on Extended Ram Semen. Animals, 2021, 11, 1011.	2.3	8
78	Impact of synthesis parameters on structural and magnetic characteristics of Co-based nanoparticles. Journal of Nanoparticle Research, 2009, 11, 1477-1484.	1.9	7
79	The Effect of Composition and Structural Ordering on the Magnetism of FePt Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 6017-6023.	0.9	7
80	Airborne magnetic nanoparticles may contribute to COVID-19 outbreak: Relationships in Greece and Iran. Environmental Research, 2022, 204, 112054.	7.5	7
81	Conditions Affecting Bromate Formation During Ozonation of Bottled Water. Ozone: Science and Engineering, 2003, 25, 167-175.	2.5	6
82	Thermal treatment effects in the self-assembly of FePt nanoparticle arrays. Journal of Magnetism and Magnetic Materials, 2008, 320, 2665-2671.	2.3	6
83	Study of Corrosion Protection of Concrete in Sewage Systems with Magnesium Hydroxide Coatings. Environmental Sciences Proceedings, 2020, 2, 27.	0.3	6
84	ANNEALING EFFECT ON THE INDUCED MAGNETISM OF PLATINUM IN FePt NANOPARTICLES. Modern Physics Letters B, 2007, 21, 1189-1196.	1.9	5
85	Effects of various chemical synthetic routes on structural and magnetic features of Mnâ€“Pt bimetallic nanoparticles. Polyhedron, 2009, 28, 3284-3290.	2.2	5
86	Field-assisted organization, substrate effects and magnetic behavior of Ag30Co70 coreâ€“shell nanoparticles. Solid State Sciences, 2010, 12, 1907-1911.	3.2	5
87	Nanoparticles for Heavy Metal Removal from Drinking Water. Environmental Chemistry for A Sustainable World, 2018, , 75-124.	0.5	5
88	An Optimized Cr(VI)-Removal System Using Sn-based Reducing Adsorbents. Water (Switzerland), 2019, 11, 2477.	2.7	5
89	Influence of the Pt thickness on the structural and magnetic properties of epitaxial Fe/Pt bilayers. Thin Solid Films, 2020, 694, 137716.	1.8	5
90	Optimization of tin oxyhydroxide-decorated biochar for improved hexavalent chromium uptake from drinking water. Journal of Environmental Chemical Engineering, 2022, 10, 108051.	6.7	5

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91	Hydrotalcite-Embedded Magnetite Nanoparticles for Hyperthermia-Triggered Chemotherapy. Nanomaterials, 2021, 11, 1796.	4.1	4
92	Addressing the Effect of Magnetic Particle Hyperthermia Application on the Composition and Spatial Distribution of Iron Oxide Nanoparticles Using X-ray Spectroscopic Techniques. Journal of Physical Chemistry C, 2022, 126, 10101-10109.	3.1	4
93	Dimpled SiO2@Î³-Fe2O3 nanocomposites â€“ fabrication and use for arsenic adsorption in aqueous medium. RSC Advances, 2021, 11, 1343-1353.	3.6	3
94	Measurements of the magnetoresistance effect in Co/Pt multilayers grown on patterned substrates. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1323-E1325.	2.3	2
95	Influence of multilayer modulation on structural and magnetic features in the Pt/Smâ€“Co system. Journal of Magnetism and Magnetic Materials, 2009, 321, 3155-3158.	2.3	2
96	Size-Induced Effects in Wet-Chemically Synthesized CoPt₃ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 6087-6092.	0.9	2
97	Scaling up the production of magnetic nanoparticles for biomedical applications: cost-effective fabrication from basalts. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1053-1058.	0.8	2
98	Technologies Developing in Heavy Metalsâ€™ Removal from Water. Water (Switzerland), 2021, 13, 860.	2.7	2
99	Metal (Hydr)oxides for the removal of Cr(VI) from drinking water: a XAFS study. Journal of Physics: Conference Series, 2016, 712, 012082.	0.4	1
100	One step preparation of ZnFe2O4/Zn5(OH)6(CO3)2 nanocomposite with improved As(V) removal capacity. Separation Science and Technology, 2018, 53, 1457-1464.	2.5	1
101	Tuning the Fe(II)/hydroxide Ratio during Synthesis of Magnetite Nanoparticles to Maximize Cr(VI) Uptake Capacity. Water (Switzerland), 2022, 14, 1335.	2.7	1
102	Adapting the use of Fe3O4 nanoparticles in large-scale water treatment facilities. Materials Research Society Symposia Proceedings, 2014, 1708, 13.	0.1	0
103	Biomass-derived nanocomposites: A critical evaluation of their performance toward the capture of inorganic pollutants. , 2022, , 569-603.		0