

# Josef KaÅ;lÃ-k

## List of Publications by Year in descending order

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24  
papers

809  
citations

623734

14  
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677142

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g-index

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docs citations

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times ranked

1423  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron(II,III)â€“Polyphenol Complex Nanoparticles Derived from Green Tea with Remarkable Ecotoxicological Impact. ACS Sustainable Chemistry and Engineering, 2014, 2, 1674-1680.	6.7	122
2	Surfactant-Derived Amphiphilic Carbon Dots with Tunable Photoluminescence. Journal of Physical Chemistry C, 2013, 117, 24991-24996.	3.1	117
3	Magnetically Assisted Surface-Enhanced Raman Scattering Selective Determination of Dopamine in an Artificial Cerebrospinal Fluid and a Mouse Striatum Using Fe<sub>3</sub>O<sub>4</sub>/Ag Nanocomposite. Analytical Chemistry, 2014, 86, 2939-2946.	6.5	77
4	Silica-supported Fe/Feâ€“O nanoparticles for the catalytic hydrogenation of nitriles to amines in the presence of aluminium additives. Nature Catalysis, 2022, 5, 20-29.	34.4	65
5	Pharmaceuticals, benzene, toluene and chlorobenzene removal from contaminated groundwater by combined UV/H <sub>2</sub> O <sub>2</sub> photo-oxidation and aeration. Water Research, 2017, 120, 245-255.	11.3	49
6	Coreâ€“shell hybrid nanomaterial based on prussian blue and surface active maghemite nanoparticles as stable electrocatalyst. Biosensors and Bioelectronics, 2014, 52, 159-165.	10.1	46
7	Synthesis of flower-like magnetite nanoassembly: Application in the efficient reduction of nitroarenes. Scientific Reports, 2017, 7, 11585.	3.3	44
8	Sulfidated nano-scale zerovalent iron is able to effectively reduce in situ hexavalent chromium in a contaminated aquifer. Journal of Hazardous Materials, 2021, 405, 124665.	12.4	42
9	Space weathering simulations through controlled growth of iron nanoparticles on olivine. Icarus, 2014, 237, 75-83.	2.5	38
10	The effect of neodymium substitution on the structural and magnetic properties of nickel ferrite. Progress in Natural Science: Materials International, 2015, 25, 215-221.	4.4	36
11	Nanoarchitecture of advanced core-shell zero-valent iron particles with controlled reactivity for contaminant removal. Chemical Engineering Journal, 2018, 354, 335-345.	12.7	30
12	Iron Nitride Nanoparticles for Enhanced Reductive Dechlorination of Trichloroethylene. Environmental Science & Technology, 2022, 56, 4425-4436.	10.0	30
13	Magnetic ground state of nanosized Î²-Fe<sub>2</sub>O<sub>3</sub> and its remarkable electronic features. RSC Advances, 2015, 5, 49719-49727.	3.6	20
14	A simple high-yield synthesis of high-purity Hf carbide (Hf-Fe<sub>5</sub>C<sub>2</sub>) nanoparticles with extraordinary electrochemical properties. Nanoscale, 2017, 9, 10440-10446.	5.6	20
15	Thermally reduced fluorographenes as efficient electrode materials for supercapacitors. Nanoscale, 2019, 11, 21364-21375.	5.6	15
16	Carboxymethylcellulose-based magnetic Au or Ag nanosystems: Eminent candidates in catalysis, sensing applications based on SERS, and electrochemistry. Applied Materials Today, 2019, 14, 143-150.	4.3	13
17	Crystal Structureâ€“and Morphologyâ€“Driven Electrochemistry of Iron Oxide Nanoparticles in Hydrogen Peroxide Detection. Advanced Materials Interfaces, 2019, 6, 1801549.	3.7	10
18	Mixtures of l-Amino Acids as Reaction Medium for Formation of Iron Nanoparticles: The Order of Addition into a Ferrous Salt Solution Matters. International Journal of Molecular Sciences, 2013, 14, 19452-19473.	4.1	9

#	ARTICLE	IF	CITATIONS
19	Thermally-induced solid state transformation of $^{57}\text{Fe}/\text{Fe}_2\text{O}_3$ nanoparticles in various atmospheres. AIP Conference Proceedings, 2014, , .	0.4	8
20	Zero-Valent Iron Nanoparticles with Unique Spherical 3D Architectures Encode Superior Efficiency in Copper Entrapment. ACS Sustainable Chemistry and Engineering, 2016, 4, 2748-2753.	6.7	7
21	Iron oxalate decomposition process by means of Mössbauer spectroscopy and nuclear forward scattering. AIP Conference Proceedings, 2016, , .	0.4	5
22	Laser-induced transformations of zero-valent iron particles. , 2012, , .		4
23	Mössbauer study of transformation of Fe cations during thermal treatment of glauconite in air. AIP Conference Proceedings, 2012, , .	0.4	2
24	Thermally induced solid-state route toward magnetite nanoparticles with controlled stoichiometry. , 2012, , .		0