Ali Reza Kamali

List of Publications by Year
in descending order

114	2,299	172457	243625
papers	citations	29 h-index	44 g-index

123	123	123	2340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene oxides for removal of heavy and precious metals from wastewater. Journal of Materials Science, 2016, 51, 6097-6116.	3.7	158
2	Molten salt corrosion of graphite as a possible way to make carbon nanostructures. Carbon, 2013, 56, 121-131.	10.3	130
3	Large-scale preparation of graphene by high temperature insertion of hydrogen into graphite. Nanoscale, 2015, 7, 11310-11320.	5.6	115
4	Graphene Oxide/Polymerâ€Based Biomaterials. Advanced Engineering Materials, 2017, 19, 1700627.	3.5	90
5	Dual coexisting interconnected graphene nanostructures for high performance supercapacitor applications. Energy and Environmental Science, 2016, 9, 2249-2256.	30.8	87
6	Eco-friendly production of high quality low cost graphene and its application in lithium ion batteries. Green Chemistry, 2016, 18, 1952-1964.	9.0	74
7	Large scale green production of ultra-high capacity anode consisting of graphene encapsulated silicon nanoparticles. Journal of Materials Chemistry A, 2017, 5, 19126-19135.	10.3	60
8	Green production of carbon nanomaterials in molten salts, mechanisms and applications. Diamond and Related Materials, 2018, 83, 146-161.	3.9	58
9	Thermokinetic characteristics of lithium chloride. Journal of Thermal Analysis and Calorimetry, 2011, 104, 619-626.	3.6	53
10	Molten salt conversion of polyethylene terephthalate waste into graphene nanostructures with high surface area and ultra-high electrical conductivity. Applied Surface Science, 2019, 476, 539-551.	6.1	51
11	Effect of the graphite electrode material on the characteristics of molten salt electrolytically produced carbon nanomaterials. Materials Characterization, 2011, 62, 987-994.	4.4	49
12	Correlation between morphological, structural and electrical properties of graphite and exfoliated graphene nanostructures. Measurement: Journal of the International Measurement Confederation, 2020, 150, 107087.	5.0	49
13	Scalable fabrication of highly conductive 3D graphene by electrochemical exfoliation of graphite in molten NaCl under Ar/H2 atmosphere. Journal of Industrial and Engineering Chemistry, 2017, 52, 18-27.	5.8	48
14	Towards large scale preparation of carbon nanostructures in molten LiCl. Carbon, 2014, 77, 835-845.	10.3	46
15	Anti-pathogenic activity of graphene nanomaterials: A review. Colloids and Surfaces B: Biointerfaces, 2021, 199, 111509.	5.0	45
16	Antiviral performance of graphene-based materials with emphasis on COVID-19: A review. Medicine in Drug Discovery, 2021, 11, 100099.	4.5	44
17	Preparation of nanodiamonds from carbon nanoparticles at atmospheric pressure. Chemical Communications, 2015, 51, 5594-5597.	4.1	43
18	3D graphene nanoedges as efficient dye adsorbents with ultra-high thermal regeneration performance. Applied Surface Science, 2019, 490, 383-394.	6.1	43

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19	Preparation of lithium niobate particles via reactive molten salt synthesis method. Ceramics International, 2014, 40, 1835-1841.	4.8	42
20	Electrochemical interaction between graphite and molten salts to produce nanotubes, nanoparticles, graphene and nanodiamonds. Journal of Materials Science, 2016, 51, 569-576.	3.7	41
21	Correlation between microstructure and thermokinetic characteristics of electrolytic carbon nanomaterials. Corrosion Science, 2012, 64, 90-97.	6.6	39
22	Effect of molten salts on the structure, morphology and electrical conductivity of PET-derived carbon nanostructures. Polymer Degradation and Stability, 2020, 177, 109184.	5.8	38
23	Nanocatalytic conversion of CO2 into nanodiamonds. Carbon, 2017, 123, 205-215.	10.3	37
24	Towards large scale preparation of graphene in molten salts and its use in the fabrication of highly toughened alumina ceramics. Faraday Discussions, 2016, 190, 451-470.	3.2	36
25	On the oxidation of electrolytic carbon nanomaterials. Corrosion Science, 2012, 54, 307-313.	6.6	34
26	Transformation of molten SnCl2 to SnO2 nano-single crystals. Ceramics International, 2014, 40, 8533-8538.	4.8	34
27	Waste plastic derived Co3Fe7/CoFe2O4@carbon magnetic nanostructures for efficient dye adsorption. Journal of Alloys and Compounds, 2021, 886, 161201.	5.5	34
28	Effects of mechanical alloying on the characteristics of a nanocrystalline Tiâ€“50at.%Al during hot pressing consolidation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 168, 136-141.	3.5	33
29	Reactive molten salt synthesis of natural graphite flakes decorated with SnO2 nanorods as high performance, low cost anode material for lithium ion batteries. Journal of Alloys and Compounds, 2019, 792, 1213-1222.	5.5	33
30	Solid phase growth of tin oxide nanostructures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2012, 177, 819-825.	3.5	32
31	l-Arginine modified multi-walled carbon nanotube/sulfonated poly(ether ether ketone) nanocomposite films for biomedical applications. Applied Surface Science, 2018, 444, 168-176.	6.1	29
32	Phase transformations of Ni-15 wt.% B powders during mechanical alloying and annealing. Materials Letters, 2010, 64, 309-312.	2.6	28
33	Synergistic effect of graphene oxide and zoledronic acid for osteoporosis and cancer treatment. Scientific Reports, 2020, 10, 7827.	3.3	27
34	Oxidation/mineralization of AO7 by electro-Fenton process using chalcopyrite as the heterogeneous source of iron and copper catalysts with enhanced degradation activity and reusability. Journal of Electroanalytical Chemistry, 2019, 853, 113532.	3.8	24
35	Study of thallium(III) adsorption onto multiwall carbon nanotubes. New Carbon Materials, 2012, 27, 409-415.	6.1	23
36	Ultra-fast shock-wave combustion synthesis of nanostructured silicon from sand with excellent Li storage performance. Sustainable Energy and Fuels, 2019, 3, 1396-1405.	4.9	20

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37	Size-controllable synthesis of lithium niobate nanocrystals using modified Pechini polymeric precursor method. Journal of Thermal Analysis and Calorimetry, 2016, 125, 17-22.	3.6	19
38	Thermokinetic characterisation of tin(II) chloride. Journal of Thermal Analysis and Calorimetry, 2014, 118, 99-104.	3.6	17
39	Temperature Dependence on Density, Viscosity, and Electrical Conductivity of Ionic Liquid 1-Ethyl-3-Methylimidazolium Fluoride. Applied Sciences (Switzerland), 2018, 8, 356.	2.5	17
40	Molten salt synthesis of oxygen-deficient SnO2 crystals with enhanced electrical conductivity. Applied Surface Science, 2019, 465, 397-404.	6.1	17
41	Effects of Ni addition on the microstructure and properties of nanostructured copperâ€“germanium alloys. Intermetallics, 2013, 38, 80-87.	3.9	15
42	Production of a nanocrystalline Ni3Al-based alloy using mechanical alloying. Journal of Alloys and Compounds, 2010, 500, 30-33.	5.5	14
43	Structural Evolution of Nanocrystalline Nickel-Tungsten Alloys Upon Mechanical Alloying with Subsequent Annealing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 510-521.	2.2	14
44	Study on solid state reactions of nanocrystalline Cuâ€“Ge alloys upon mechanical alloying and annealing. Powder Metallurgy, 2014, 57, 119-126.	1.7	14
45	Nitride, Zirconia, Alumina, and Carbide Coatings on Ti6Al4V Femoral Heads: Effect of Deposition Techniques on Mechanical and Tribological Properties. Advanced Engineering Materials, 2017, 19, 1700177.	3.5	14
46	Electro-reduction of hematite using water as the redox mediator. Green Chemistry, 2019, 21, 198-204.	9.0	14
47	Textural, structural and morphological evolution of mesoporous 3D graphene saturated with methyl orange dye during thermal regeneration. Diamond and Related Materials, 2020, 103, 107698.	3.9	14
48	Clean production and utilisation of hydrogen in molten salts. RSC Advances, 2020, 10, 36020-36030.	3.6	14
49	Dual-step air-thermal treatment for facile conversion of PET into porous carbon particles with enhanced dye adsorption performance. Diamond and Related Materials, 2020, 107, 107914.	3.9	14
50	A possible scalable method for the synthesis of Sn-containing carbon nanostructures. Materials Today Communications, 2015, 2, e38-e48.	1.9	13
51	Molten salt electrochemical production and in situ utilization of hydrogen for iron production. International Journal of Hydrogen Energy, 2019, 44, 24353-24359.	7.1	11
52	Influence of a piezoelectric ZnO intermediate layer on Rayleigh waves propagating in Sc43%AlN57%/ZnO/diamond hetero-structures subjected to uniaxial stress. European Physical Journal Plus, 2020, 135, 1.	2.6	11
53	Rapid preparation and characterization of oxygen-deficient SnO2 nanobelts with enhanced Li diffusion kinetics. Journal of Electroanalytical Chemistry, 2020, 871, 114276.	3.8	11
54	Effect of Graphite on Copper Bioleaching from Waste Printed Circuit Boards. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T	2.0	11

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55	Green electro-synthesis of Li2Fe3O5 microcrystals as high performance anode material for lithium-ion batteries. Journal of Electroanalytical Chemistry, 2020, 863, 114061.	3.8	10
56	Green molten salt synthesis and Li-ion storage performance of sodium dimolybdate. Journal of Alloys and Compounds, 2020, 831, 154781.	5.5	10
57	Black diamond powder: On the thermal oxidation and surface graphitization. Applied Surface Science, 2021, 551, 149371.	6.1	10
58	Role of humic acid in bioleaching of copper from waste computer motherboards. Hydrometallurgy, 2020, 197, 105437.	4.3	10
59	Green molten salt modification of cobalt oxide for lithium ion battery anode application. Materials Chemistry and Physics, 2021, 267, 124585.	4.0	9
60	Electrochemical production of hydrogen in molten salt. Energy Conversion and Management, 2022, 251, 114980.	9.2	9
61	Nanostructured MgO-enhanced catalytic ozonation of petrochemical wastewater. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2021, 60, 391-400.	1.9	8
62	Reactive molten salt modification of ilmenite as a green approach for the preparation of inexpensive Li ion battery anode materials. Minerals Engineering, 2021, 172, 107175.	4.3	8
63	Copper leaching from nanoparticles of chalcopyrite concentrate. Russian Journal of Non-Ferrous Metals, 2008, 49, 138-143.	0.6	7
64	Investigation on hot workability and mechanical properties of modified IC-221M alloy. Journal of Alloys and Compounds, 2009, 485, 204-208.	5.5	7
65	Cubically cage-shaped mesoporous ordered silica for simultaneous visual detection and removal of uranium ions from contaminated seawater. Mikrochimica Acta, 2022, 189, 3.	5.0	7
66	Propagating, evanescent and ZGV Lamb modes in high-performance anisotropic Cuâ€“Alâ€“Ni alloy plates. Archive of Applied Mechanics, 2022, 92, 21-43.	2.2	6
67	Combustion synthesis-aqueous hybridization of nanostructured graphene-coated silicon and its dye removal performance. Materials Chemistry and Physics, 2022, 277, 125565.	4.0	6
68	Production of TiAl(Ti₃Al)/Al₂O₃ Nanocomposite. Journal of Nano Research, 2008, 3, 7-14.	0.8	5
69	Characteristics of thermal transitions during annealing of a nanocrystalline Ni3Al-based alloy. Journal of Alloys and Compounds, 2009, 486, 315-318.	5.5	5
70	Preparation of photoactive graphene oxide-Cu2O/Cu nanostructures by the electrochemical treatment of Cu Ni leaching solutions using graphite electrodes. Diamond and Related Materials, 2020, 109, 108088.	3.9	5
71	Molten salt preparation and Li-storage performance of faceted Li2TiO3 crystals. Materials Letters, 2020, 277, 128357.	2.6	5
72	The influence of mechanochemical treatment in hexane on dispersibility and floatability of graphite flakes with enhanced water evaporation performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 638, 128326.	4.7	5

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73	Electrolytic Conversion of Natural Graphite into Carbon Nanostructures with Enhanced Electrical Conductivity and Na-ion Storage Performance. Journal of the Electrochemical Society, 2022, 169, 054512.	2.9	5
74	Synthesis of flower-like MnO2 nanostructure with freshly prepared Cu particles and electrochemical performance in supercapacitors. PLoS ONE, 2022, 17, e0269086.	2.5	5
75	Fast and clean preparation of highly crystalline SnO2 nanoparticles incorporated in amorphous carbon, and its dye removal performance. Inorganic Chemistry Communication, 2022, 142, 109597.	3.9	5
76	Investigation of the characteristics of the nanocrystalline Ni3Al-based alloy fabricated by hot pressing and sintering. Journal of Alloys and Compounds, 2010, 492, 196-200.	5.5	4
77	Quantum Dots and Nanoparticles in Light Emitting Diodes, Displays, and Optoelectronic Devices. Journal of Nanomaterials, 2015, 2015, 1-2.	2.7	4
78	Evolution and Stability of a Nanocrystalline Cu3Ge Intermetallic Compound Fabricated by Means of High Energy Ball Milling and Annealing Processes. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 516-524.	2.2	4
79	Improvements of energy conversion and storage: general discussion. Faraday Discussions, 2016, 190, 291-306.	3.2	4
80	Enhanced dispersion and antibacterial activity of mechanically exfoliated graphite flakes in the presence of n-hexane and NaCl. Materials Letters, 2021, 304, 130730.	2.6	4
81	Thermokinetic study on the phase evolution of mechanically alloyed Niâ€“B powders. Journal of Thermal Analysis and Calorimetry, 2012, 107, 265-269.	3.6	3
82	Benefits to energy efficiency and environmental impact: general discussion. Faraday Discussions, 2016, 190, 161-204.	3.2	2
83	Green production of hydrogen-doped faceted cobalt microcrystals using water-assisted molten salt electro-reduction method. Materials Advances, 2020, 1, 2225-2235.	5.4	2
84	2D materials production and generation of functional inks: general discussion. Faraday Discussions, 2021, 227, 141-162.	3.2	2
85	Water-Assisted Green Production of Steel Powder in Molten Salt. Journal of the Electrochemical Society, 2021, 168, 026508.	2.9	2
86	Structural, microstructural and thermal characterization of layer-structured CaSi2 produced by clean combustion synthesis method. Journal of Alloys and Compounds, 2021, 888, 161506.	5.5	2
87	Biomedical applications: general discussion. Faraday Discussions, 2021, 227, 245-258.	3.2	2
88	Production of Advanced Materials in Molten Salts. , 2020, , 5-18.		2
89	One-step conversion of Mg2Si into hydrogen-terminated porous silicon nanostructures. Materials Today Chemistry, 2021, 22, 100621.	3.5	2
90	Electrochemical Preparation of Nano-Sized Silicon as a Lithium-Ion Battery Anode Material. Journal of the Electrochemical Society, 2021, 168, 120509.	2.9	2

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91	3D-graphene nanosheets as efficient antibacterial agent. Materials Letters, 2022, 321, 132406.	2.6	2
92	Silicon nanostructures for sensing and bioimaging: general discussion. Faraday Discussions, 2020, 222, 384-389.	3.2	1
93	Applications in opto-electronics: general discussion. Faraday Discussions, 2021, 227, 184-188.	3.2	1
94	Accelerated mineralisation: general discussion. Faraday Discussions, 2021, 230, 213-226.	3.2	1
95	Advanced approaches: general discussion. Faraday Discussions, 2021, 229, 378-421.	3.2	1
96	Molten Salt Conversion of Plastics into Highly Conductive Carbon Nanostructures. , 2020, , 109-140.		1
97	Molten Salt-Assisted Preparation of Nanodiamonds at Atmospheric Pressure. , 2020, , 141-162.		1
98	Analysis of collaboration between AstraZeneca and the higher education sector in the UK. Industry and Higher Education, 2022, 36, 861-869.	2.2	1
99	Developments for nuclear reactors and spent fuels processing: general discussion. Faraday Discussions, 2016, 190, 399-419.	3.2	0
100	Advancement in knowledge of phenomena and processes: general discussion. Faraday Discussions, 2016, 190, 525-549.	3.2	0
101	Optical and electronic properties: from theory to experiments: general discussion. Faraday Discussions, 2020, 222, 294-303.	3.2	0
102	Synthesis and functionalisation of silicon nanostructures: general discussion. Faraday Discussions, 2020, 222, 166-175.	3.2	0
103	Silicon nanostructures for energy conversion and devices: general discussion. Faraday Discussions, 2020, 222, 433-435.	3.2	0
104	Thermal catalytic conversion: general discussion. Faraday Discussions, 2021, 230, 124-151.	3.2	0
105	Theory: general discussion. Faraday Discussions, 2021, 229, 131-160.	3.2	0
106	Life cycle and upscaling: general discussion. Faraday Discussions, 2021, 230, 308-330.	3.2	0
107	On the Reactive Molten Salt Synthesis, Solubility and Na-Ion Storage Performance of Na2Mo2O7. Journal of the Electrochemical Society, 2021, 168, 046517.	2.9	0
108	Dynamics: general discussion. Faraday Discussions, 2021, 229, 489-501.	3.2	0

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109	3-Dimensional graphene-like structures and applications: general discussion. Faraday Discussions, 2021, 227, 359-382.	3.2	0
110	Emerging technologies: general discussion. Faraday Discussions, 2021, 230, 388-412.	3.2	0
111	Applications of Carbon Nanostructures Produced in Molten Salts. , 2020, , 75-108.		0
112	Cathodic Exfoliation of Graphite in Molten Salt Electrolytes. , 2020, , 37-60.		0
113	Interaction of Molten Salts with Graphite. , 2020, , 19-36.		0
114	Mechanisms Involved in the Electrolytic Fabrication of Carbon Nanostructures. , 2020, , 61-74.		0