

# Ali Reza Kamali

## List of Publications by Year in descending order

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114  
papers

2,299  
citations

172457

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243625

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123  
docs citations

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times ranked

2340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Propagating, evanescent and ZGV Lamb modes in high-performance anisotropic Cu-Al-Ni alloy plates. <i>Archive of Applied Mechanics</i> , 2022, 92, 21-43.	2.2	6
2	Electrochemical production of hydrogen in molten salt. <i>Energy Conversion and Management</i> , 2022, 251, 114980.	9.2	9
3	Cubically cage-shaped mesoporous ordered silica for simultaneous visual detection and removal of uranium ions from contaminated seawater. <i>Mikrochimica Acta</i> , 2022, 189, 3.	5.0	7
4	Combustion synthesis-aqueous hybridization of nanostructured graphene-coated silicon and its dye removal performance. <i>Materials Chemistry and Physics</i> , 2022, 277, 125565.	4.0	6
5	The influence of mechanochemical treatment in hexane on dispersibility and floatability of graphite flakes with enhanced water evaporation performance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 638, 128326.	4.7	5
6	Analysis of collaboration between AstraZeneca and the higher education sector in the UK. <i>Industry and Higher Education</i> , 2022, 36, 861-869.	2.2	1
7	Electrolytic Conversion of Natural Graphite into Carbon Nanostructures with Enhanced Electrical Conductivity and Na-ion Storage Performance. <i>Journal of the Electrochemical Society</i> , 2022, 169, 054512.	2.9	5
8	3D-graphene nanosheets as efficient antibacterial agent. <i>Materials Letters</i> , 2022, 321, 132406.	2.6	2
9	Synthesis of flower-like MnO <sub>2</sub> nanostructure with freshly prepared Cu particles and electrochemical performance in supercapacitors. <i>PLoS ONE</i> , 2022, 17, e0269086.	2.5	5
10	Fast and clean preparation of highly crystalline SnO <sub>2</sub> nanoparticles incorporated in amorphous carbon, and its dye removal performance. <i>Inorganic Chemistry Communication</i> , 2022, 142, 109597.	3.9	5
11	Nanostructured MgO-enhanced catalytic ozonation of petrochemical wastewater. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2021, 60, 391-400.	1.9	8
12	Anti-pathogenic activity of graphene nanomaterials: A review. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 199, 111509.	5.0	45
13	Thermal catalytic conversion: general discussion. <i>Faraday Discussions</i> , 2021, 230, 124-151.	3.2	0
14	Applications in opto-electronics: general discussion. <i>Faraday Discussions</i> , 2021, 227, 184-188.	3.2	1
15	2D materials production and generation of functional inks: general discussion. <i>Faraday Discussions</i> , 2021, 227, 141-162.	3.2	2
16	Theory: general discussion. <i>Faraday Discussions</i> , 2021, 229, 131-160.	3.2	0
17	Life cycle and upscaling: general discussion. <i>Faraday Discussions</i> , 2021, 230, 308-330.	3.2	0
18	Accelerated mineralisation: general discussion. <i>Faraday Discussions</i> , 2021, 230, 213-226.	3.2	1

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19	Advanced approaches: general discussion. Faraday Discussions, 2021, 229, 378-421.	3.2	1
20	Water-Assisted Green Production of Steel Powder in Molten Salt. Journal of the Electrochemical Society, 2021, 168, 026508.	2.9	2
21	On the Reactive Molten Salt Synthesis, Solubility and Na-Ion Storage Performance of Na <sub>2</sub> Mo <sub>2</sub> O <sub>7</sub> . Journal of the Electrochemical Society, 2021, 168, 046517.	2.9	0
22	Black diamond powder: On the thermal oxidation and surface graphitization. Applied Surface Science, 2021, 551, 149371.	6.1	10
23	Green molten salt modification of cobalt oxide for lithium ion battery anode application. Materials Chemistry and Physics, 2021, 267, 124585.	4.0	9
24	Antiviral performance of graphene-based materials with emphasis on COVID-19: A review. Medicine in Drug Discovery, 2021, 11, 100099.	4.5	44
25	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
26	Structural, microstructural and thermal characterization of layer-structured CaSi <sub>2</sub> produced by clean combustion synthesis method. Journal of Alloys and Compounds, 2021, 888, 161506.	5.5	2
27	Waste plastic derived Co <sub>3</sub> Fe <sub>7</sub> /CoFe <sub>2</sub> O <sub>4</sub> @carbon magnetic nanostructures for efficient dye adsorption. Journal of Alloys and Compounds, 2021, 886, 161201.	5.5	34
28	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
29	Biomedical applications: general discussion. Faraday Discussions, 2021, 227, 245-258.	3.2	2
30	Dynamics: general discussion. Faraday Discussions, 2021, 229, 489-501.	3.2	0
31	3-Dimensional graphene-like structures and applications: general discussion. Faraday Discussions, 2021, 227, 359-382.	3.2	0
32	Emerging technologies: general discussion. Faraday Discussions, 2021, 230, 388-412.	3.2	0
33	One-step conversion of Mg <sub>2</sub> Si into hydrogen-terminated porous silicon nanostructures. Materials Today Chemistry, 2021, 22, 100621.	3.5	2
34	Electrochemical Preparation of Nano-Sized Silicon as a Lithium-Ion Battery Anode Material. Journal of the Electrochemical Society, 2021, 168, 120509.	2.9	2
35	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
36	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

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37	Preparation of photoactive graphene oxide-Cu <sub>2</sub> O/Cu nanostructures by the electrochemical treatment of Cu Ni leaching solutions using graphite electrodes. <i>Diamond and Related Materials</i> , 2020, 109, 108088.	3.9	5
38	Clean production and utilisation of hydrogen in molten salts. <i>RSC Advances</i> , 2020, 10, 36020-36030.	3.6	14
39	Influence of a piezoelectric ZnO intermediate layer on Rayleigh waves propagating in Sc <sub>43</sub> %AlN <sub>57</sub> %/ZnO/diamond hetero-structures subjected to uniaxial stress. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	11
40	Molten salt preparation and Li-storage performance of faceted Li <sub>2</sub> TiO <sub>3</sub> crystals. <i>Materials Letters</i> , 2020, 277, 128357.	2.6	5
41	Green production of hydrogen-doped faceted cobalt microcrystals using water-assisted molten salt electro-reduction method. <i>Materials Advances</i> , 2020, 1, 2225-2235.	5.4	2
42	Synergistic effect of graphene oxide and zoledronic acid for osteoporosis and cancer treatment. <i>Scientific Reports</i> , 2020, 10, 7827.	3.3	27
43	Rapid preparation and characterization of oxygen-deficient SnO <sub>2</sub> nanobelts with enhanced Li diffusion kinetics. <i>Journal of Electroanalytical Chemistry</i> , 2020, 871, 114276.	3.8	11
44	Optical and electronic properties: from theory to experiments: general discussion. <i>Faraday Discussions</i> , 2020, 222, 294-303.	3.2	0
45	Silicon nanostructures for sensing and bioimaging: general discussion. <i>Faraday Discussions</i> , 2020, 222, 384-389.	3.2	1
46	Synthesis and functionalisation of silicon nanostructures: general discussion. <i>Faraday Discussions</i> , 2020, 222, 166-175.	3.2	0
47	Silicon nanostructures for energy conversion and devices: general discussion. <i>Faraday Discussions</i> , 2020, 222, 433-435.	3.2	0
48	Green electro-synthesis of Li <sub>2</sub> Fe <sub>3</sub> O <sub>5</sub> microcrystals as high performance anode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 863, 114061.	3.8	10
49	Dual-step air-thermal treatment for facile conversion of PET into porous carbon particles with enhanced dye adsorption performance. <i>Diamond and Related Materials</i> , 2020, 107, 107914.	3.9	14
50	Effect of Graphite on Copper Bioleaching from Waste Printed Circuit Boards. <i>Minerals (Basel)</i> , 2020, 10, 11.	2.0	11
51	Effect of molten salts on the structure, morphology and electrical conductivity of PET-derived carbon nanostructures. <i>Polymer Degradation and Stability</i> , 2020, 177, 109184.	5.8	38
52	Green molten salt synthesis and Li-ion storage performance of sodium dimolybdate. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154781.	5.5	10
53	Production of Advanced Materials in Molten Salts. , 2020, , 5-18.		2
54	Molten Salt Conversion of Plastics into Highly Conductive Carbon Nanostructures. , 2020, , 109-140.		1

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55	Molten Salt-Assisted Preparation of Nanodiamonds at Atmospheric Pressure. , 2020, , 141-162.		1
56	Role of humic acid in bioleaching of copper from waste computer motherboards. Hydrometallurgy, 2020, 197, 105437.	4.3	10
57	Applications of Carbon Nanostructures Produced in Molten Salts. , 2020, , 75-108.		0
58	Cathodic Exfoliation of Graphite in Molten Salt Electrolytes. , 2020, , 37-60.		0
59	Interaction of Molten Salts with Graphite. , 2020, , 19-36.		0
60	Mechanisms Involved in the Electrolytic Fabrication of Carbon Nanostructures. , 2020, , 61-74.		0
61	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
62	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
63	Electro-reduction of hematite using water as the redox mediator. Green Chemistry, 2019, 21, 198-204.	9.0	14
64	3D graphene nanoedges as efficient dye adsorbents with ultra-high thermal regeneration performance. Applied Surface Science, 2019, 490, 383-394.	6.1	43
65	Reactive molten salt synthesis of natural graphite flakes decorated with SnO <sub>2</sub> nanorods as high performance, low cost anode material for lithium ion batteries. Journal of Alloys and Compounds, 2019, 792, 1213-1222.	5.5	33
66	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
67	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
68	Molten salt synthesis of oxygen-deficient SnO <sub>2</sub> crystals with enhanced electrical conductivity. Applied Surface Science, 2019, 465, 397-404.	6.1	17
69	Green production of carbon nanomaterials in molten salts, mechanisms and applications. Diamond and Related Materials, 2018, 83, 146-161.	3.9	58
70	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
71	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
72	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

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73	Scalable fabrication of highly conductive 3D graphene by electrochemical exfoliation of graphite in molten NaCl under Ar/H <sub>2</sub> atmosphere. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 52, 18-27.	5.8	48
74	Graphene Oxide/Polymer-Based Biomaterials. <i>Advanced Engineering Materials</i> , 2017, 19, 1700627.	3.5	90
75	Nanocatalytic conversion of CO <sub>2</sub> into nanodiamonds. <i>Carbon</i> , 2017, 123, 205-215.	10.3	37
76	Large scale green production of ultra-high capacity anode consisting of graphene encapsulated silicon nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017, 5, 19126-19135.	10.3	60
77	Dual coexisting interconnected graphene nanostructures for high performance supercapacitor applications. <i>Energy and Environmental Science</i> , 2016, 9, 2249-2256.	30.8	87
78	Towards large scale preparation of graphene in molten salts and its use in the fabrication of highly toughened alumina ceramics. <i>Faraday Discussions</i> , 2016, 190, 451-470.	3.2	36
79	Improvements of energy conversion and storage: general discussion. <i>Faraday Discussions</i> , 2016, 190, 291-306.	3.2	4
80	Developments for nuclear reactors and spent fuels processing: general discussion. <i>Faraday Discussions</i> , 2016, 190, 399-419.	3.2	0
81	Benefits to energy efficiency and environmental impact: general discussion. <i>Faraday Discussions</i> , 2016, 190, 161-204.	3.2	2
82	Advancement in knowledge of phenomena and processes: general discussion. <i>Faraday Discussions</i> , 2016, 190, 525-549.	3.2	0
83	Eco-friendly production of high quality low cost graphene and its application in lithium ion batteries. <i>Green Chemistry</i> , 2016, 18, 1952-1964.	9.0	74
84	Graphene oxides for removal of heavy and precious metals from wastewater. <i>Journal of Materials Science</i> , 2016, 51, 6097-6116.	3.7	158
85	Size-controllable synthesis of lithium niobate nanocrystals using modified Pechini polymeric precursor method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 125, 17-22.	3.6	19
86	Electrochemical interaction between graphite and molten salts to produce nanotubes, nanoparticles, graphene and nanodiamonds. <i>Journal of Materials Science</i> , 2016, 51, 569-576.	3.7	41
87	Quantum Dots and Nanoparticles in Light Emitting Diodes, Displays, and Optoelectronic Devices. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-2.	2.7	4
88	Preparation of nanodiamonds from carbon nanoparticles at atmospheric pressure. <i>Chemical Communications</i> , 2015, 51, 5594-5597.	4.1	43
89	Large-scale preparation of graphene by high temperature insertion of hydrogen into graphite. <i>Nanoscale</i> , 2015, 7, 11310-11320.	5.6	115
90	A possible scalable method for the synthesis of Sn-containing carbon nanostructures. <i>Materials Today Communications</i> , 2015, 2, e38-e48.	1.9	13

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91	Evolution and Stability of a Nanocrystalline Cu <sub>3</sub> Ge 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
92	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
93	Thermokinetic characterisation of tin(II) chloride. Journal of Thermal Analysis and Calorimetry, 2014, 118, 99-104.	3.6	17
94	Study on solid state reactions of nanocrystalline Cu-Ge alloys upon mechanical alloying and annealing. Powder Metallurgy, 2014, 57, 119-126.	1.7	14
95	Preparation of lithium niobate particles via reactive molten salt synthesis method. Ceramics International, 2014, 40, 1835-1841.	4.8	42
96	Transformation of molten SnCl <sub>2</sub> to SnO <sub>2</sub> nano-single crystals. Ceramics International, 2014, 40, 8533-8538.	4.8	34
97	Towards large scale preparation of carbon nanostructures in molten LiCl. Carbon, 2014, 77, 835-845.	10.3	46
98	Molten salt corrosion of graphite as a possible way to make carbon nanostructures. Carbon, 2013, 56, 121-131.	10.3	130
99	Effects of Ni addition on the microstructure and properties of nanostructured copper-germanium alloys. Intermetallics, 2013, 38, 80-87.	3.9	15
100	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
101	On the oxidation of electrolytic carbon nanomaterials. Corrosion Science, 2012, 54, 307-313.	6.6	34
102	Correlation between microstructure and thermokinetic characteristics of electrolytic carbon nanomaterials. Corrosion Science, 2012, 64, 90-97.	6.6	39
103	Study of thallium(III) adsorption onto multiwall carbon nanotubes. New Carbon Materials, 2012, 27, 409-415.	6.1	23
104	Thermokinetic study on the phase evolution of mechanically alloyed Ni-B powders. Journal of Thermal Analysis and Calorimetry, 2012, 107, 265-269.	3.6	3
105	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
106	Thermokinetic characteristics of lithium chloride. Journal of Thermal Analysis and Calorimetry, 2011, 104, 619-626.	3.6	53
107	Effects of mechanical alloying on the characteristics of a nanocrystalline Ti-50at.%Al during hot pressing consolidation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 168, 136-141.	3.5	33
108	Phase transformations of Ni-15 wt.% B powders during mechanical alloying and annealing. Materials Letters, 2010, 64, 309-312.	2.6	28

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109	Production of a nanocrystalline Ni <sub>3</sub> Al-based alloy using mechanical alloying. Journal of Alloys and Compounds, 2010, 500, 30-33.	5.5	14
110	Investigation of the characteristics of the nanocrystalline Ni <sub>3</sub> Al-based alloy fabricated by hot pressing and sintering. Journal of Alloys and Compounds, 2010, 492, 196-200.	5.5	4
111	Investigation on hot workability and mechanical properties of modified IC-221M alloy. Journal of Alloys and Compounds, 2009, 485, 204-208.	5.5	7
112	Characteristics of thermal transitions during annealing of a nanocrystalline Ni <sub>3</sub> Al-based alloy. Journal of Alloys and Compounds, 2009, 486, 315-318.	5.5	5
113	Copper leaching from nanoparticles of chalcopyrite concentrate. Russian Journal of Non-Ferrous Metals, 2008, 49, 138-143.	0.6	7
114	Production of TiAl(Ti <sub>3</sub> Al)/Al <sub>2</sub> O <sub>3</sub> Nanocomposite. Journal of Nano Research, 2008, 3, 7-14.	0.8	5