

K V Manukyan

List of Publications by Year in descending order

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65
papers

2,565
citations

331670

21
h-index

189892

50
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65
all docs

65
docs citations

65
times ranked

2870
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Combustion Synthesis of Nanoscale Materials. <i>Chemical Reviews</i> , 2016, 116, 14493-14586.	47.7	933
2	Solution Combustion Synthesis of Nano-Crystalline Metallic Materials: Mechanistic Studies. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24417-24427.	3.1	170
3	Combustion synthesis of zero-, one-, two- and three-dimensional nanostructures: Current trends and future perspectives. <i>Progress in Energy and Combustion Science</i> , 2017, 63, 79-118.	31.2	157
4	Ultrasmall $\gamma\text{-Fe}_2\text{O}_3$ Superparamagnetic Nanoparticles with High Magnetization Prepared by Template-Assisted Combustion Process. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16264-16271.	3.1	104
5	Tailored Reactivity of Ni+Al Nanocomposites: Microstructural Correlations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21027-21038.	3.1	97
6	Low temperature decomposition of hydrous hydrazine over FeNi/Cu nanoparticles. <i>Applied Catalysis A: General</i> , 2014, 476, 47-53.	4.3	94
7	Nickel Oxide Reduction by Hydrogen: Kinetics and Structural Transformations. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16131-16138.	3.1	92
8	One-step solution combustion synthesis of CuO/Cu ₂ O/C anode for long cycle life Li-ion batteries. <i>Carbon</i> , 2019, 142, 51-59.	10.3	79
9	Combustion synthesis of copper–nickel catalysts for hydrogen production from ethanol. <i>Chemical Engineering Journal</i> , 2015, 278, 46-54.	12.7	62
10	In Situ Preparation of Highly Stable Ni-Based Supported Catalysts by Solution Combustion Synthesis. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26191-26198.	3.1	58
11	Direct reduction of ammonium molybdate to elemental molybdenum by combustion reaction. <i>Chemical Engineering Journal</i> , 2011, 168, 925-930.	12.7	45
12	Combustion synthesis of graphene materials. <i>Carbon</i> , 2013, 62, 302-311.	10.3	36
13	Solid-flame: Experimental validation. <i>Combustion and Flame</i> , 2016, 163, 487-493.	5.2	36
14	Mechanochemical synthesis of methylammonium lead iodide perovskite. <i>Journal of Materials Science</i> , 2016, 51, 9123-9130.	3.7	35
15	Reaction pathway in the MoO ₃ +Mg+C reactive mixtures. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 31, 28-32.	3.8	34
16	Irradiation-Enhanced Reactivity of Multilayer Al/Ni Nanomaterials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11272-11279.	8.0	33
17	Highly stable Ni–Al ₂ O ₃ catalyst prepared from a Ni–Al layered double hydroxide for ethanol decomposition toward hydrogen. <i>Applied Catalysis A: General</i> , 2015, 508, 37-44.	4.3	32
18	Microstructure-reactivity relationship of Ti–C reactive nanomaterials. <i>Journal of Applied Physics</i> , 2013, 113, 024302.	2.5	27

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19	Photoactive Porous Silicon Nanopowder. ACS Applied Materials & Interfaces, 2013, 5, 2943-2951.	8.0	24
20	Exothermic Self-Sustained Waves with Amorphous Nickel. Journal of Physical Chemistry C, 2016, 120, 5827-5838.	3.1	23
21	The Solid Flame Phenomenon: A Novel Perspective. Advanced Engineering Materials, 2018, 20, 1701065.	3.5	23
22	Kinetics and Mechanism of Ignition in Reactive Al/Ni Nanostructured Materials. Journal of Physical Chemistry C, 2018, 122, 27082-27092.	3.1	21
23	Reduction of MoO ₃ by Zn: Reducer migration phenomena. International Journal of Refractory Metals and Hard Materials, 2010, 28, 601-604.	3.8	20
24	Mechanism of Molten-Salt-Controlled Thermite Reactions. Industrial & Engineering Chemistry Research, 2011, 50, 10982-10988.	3.7	20
25	Irradiation-induced reactions at the CeO ₂ /SiO ₂ /Si interface. Journal of Chemical Physics, 2020, 152, 104704.	3.0	20
26	The Effect of Silicon Powder Characteristics on the Combustion of Silicon/Teflon/Viton Nanoenergetics. Propellants, Explosives, Pyrotechnics, 2014, 39, 337-347.	1.6	19
27	Combustion/micropyretic synthesis of atomically thin two-dimensional materials for energy applications. Current Opinion in Chemical Engineering, 2015, 7, 16-22.	7.8	18
28	Mesoporous metal - silica materials: Synthesis, catalytic and thermal properties. Microporous and Mesoporous Materials, 2018, 257, 175-184.	4.4	18
29	Nanoscale Metastable $\mu\text{-Fe}_3\text{N}$ Ferromagnetic Materials by Self-Sustained Reactions. Inorganic Chemistry, 2019, 58, 5583-5592.	4.0	17
30	Thermodynamics and kinetics of solution combustion synthesis: Ni(NO ₃) ₂ fuels systems. Combustion and Flame, 2020, 221, 110-119.	5.2	17
31	Pure and cerium-doped zinc orthosilicate as a pigment for thermoregulating coatings. Ceramics International, 2020, 46, 4992-4997.	4.8	15
32	Surface manipulation techniques of Roman denarii. Applied Surface Science, 2019, 493, 818-828.	6.1	14
33	Mechanisms of mechanochemical synthesis of cesium lead halides: pathways toward stabilization of $\delta\text{-CsPbI}_3$. Journal of Materials Science, 2020, 55, 8665-8678.	3.7	14
34	High Precision Determination of the λ^2 Decay Value of ${}^Q\text{EC}$	7.8	12
35	Kinetics and Mechanism of Nickel Oxide Reduction by Methane. Journal of Physical Chemistry C, 2019, 123, 21513-21521.	3.1	12
36	Proton-induced reactions on molybdenum. Physical Review C, 2019, 100, .	2.9	12

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37	Microwave-assisted synthesis of carbon-supported carbides catalysts for hydrous hydrazine decomposition. Journal of Physics and Chemistry of Solids, 2016, 96-97, 115-120.	4.0	11
38	Structural transformations of highly porous nickel catalysts during ethanol conversion towards hydrogen. International Journal of Hydrogen Energy, 2018, 43, 13225-13236.	7.1	11
39	Reaction of NiO with H_2 and its impact on the catalytic activity of NiO for the hydrogenation of CO_2 to CH_4 . International Journal of Hydrogen Energy, 2019, 44, 12225-12236.	2.9	6
40	Hyperstoichiometric Uranium Dioxides: Rapid Synthesis and Irradiation-Induced Structural Changes. Inorganic Chemistry, 2021, 60, 18938-18949.	4.0	11
41	Irradiation-Driven Restructuring of UO_2 Thin Films: Amorphization and Crystallization. ACS Applied Materials & Interfaces, 2021, 13, 35153-35164.	8.0	10
42	Shock-induced reaction synthesis of cubic boron nitride. Applied Physics Letters, 2018, 112, 171903.	3.3	9
43	Comparative study of combustion laws for Mo-N and W-N ternary systems. Journal of Alloys and Compounds, 2008, 454, 394-399.	5.5	7
44	Measurements of conversion electrons in the s-process branching point nucleus ^{176}Lu . European Physical Journal A, 2016, 52, 1.	2.5	7
45	Multiscale X-ray fluorescence mapping complemented by Raman spectroscopy for pigment analysis of a 15th century Breton manuscript. Analytical Methods, 2016, 8, 7696-7701.	2.7	7
46	Microwave-assisted preparation and characterization of nanoscale rhenium diboride. Ceramics International, 2018, 44, 22339-22344.	4.8	6
47	Measurement of the cross section of ^{187}W and two-dimensional WO_3/W nanocrystals produced by controlled self-sustaining reduction of sodium tungstate. Journal of Materials Research, 2013, 28, 2611-2621.	2.6	5
48	Phase formation mechanism of the Ni-Zr polytetrafluoroethylene reactive mixture. Journal of Thermal Analysis and Calorimetry, 2012, 110, 619-623.	3.6	3
49	Solution Combustion Synthesis of Catalysts. , 2017, , 347-348.		3
51	Combustion in the $\text{ZrF}_4\text{-Mg-Si}$ and $\text{ZrF}_4\text{-Al-Si}$ systems for preparation of zirconium silicides. Combustion and Flame, 2021, 232, 111514.	5.2	3
52	Preparation and characterization of isotopically pure Mo targets for nuclear science measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1034, 166763.	1.6	3
53	Spontaneous Crystallization for Tailoring Polymorphic Nanoscale Nickel with Superior Hardness. Journal of Physical Chemistry C, 2022, 126, 12301-12312.	3.1	3
54	Preparation and Reactivity of Gasless Nanostructured Energetic Materials. Journal of Visualized Experiments, 2015, , e52624.	0.3	2

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55	Combustion and materials synthesis. International Journal of Self-Propagating High-Temperature Synthesis, 2017, 26, 143-144.	0.5	2
56	Size-tunable germanium particles prepared by self-sustaining reduction of germanium oxide. Journal of Solid State Chemistry, 2019, 270, 92-97.	2.9	2
57	TEM/STEM Analysis of NiO Reduction to Ni during Annealing in H ₂ Atmosphere. Microscopy and Microanalysis, 2014, 20, 1898-1899.	0.4	0
58	TEM Analysis of Structural Transformation in Al/Ni Nanomaterials under High Energy Ion Irradiation. Microscopy and Microanalysis, 2015, 21, 583-584.	0.4	0
59	Combustion Synthesis of Ni-SiO ₂ Nanoscale Materials. Microscopy and Microanalysis, 2017, 23, 1866-1867.	0.4	0
60	Template-Assisted Solution Combustion Synthesis. , 2017, , 376-378.		0
61	Two-Dimensional Materials. , 2017, , 408-410.		0
62	TEM Investigations of Ion-Irradiated Cerium Oxide Thin Film. Microscopy and Microanalysis, 2019, 25, 1620-1621.	0.4	0
63	Cross-section measurements to low-lying excited final states in the Mg^{24} $\text{Mg}^{24}(\pm)$ $\text{Mg}^{24}p$		