Andrei A Krasilin

List of Publications by Year
in descending order

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45 papers	687 citations	687363 13 h-index	610901 24 g-index
50 all docs	50 docs citations	50 times ranked	680 citing authors

#	Article	IF	Citations
1	Alloying nanoparticles by discharges in liquids: a quest for metastability. Plasma Physics and Controlled Fusion, 2022, 64, 014003.	2.1	2
2	Diamond powders synthesized at high pressure and high temperature from graphite with nickel in the presence of aluminum. Applicability of methods for analyzing nitrogen concentration in diamonds. Journal of Solid State Chemistry, 2022, 307, 122804.	2.9	4
3	Hierarchical Hexagonal Boron Nitride Nanowall-Decorated Silicon Nanoparticles for Tunable Ink-Free Coloring. ACS Applied Nano Materials, 2022, 5, 6106-6114.	5.0	1
4	Structure refinement, microstrains and crystallite sizes of Mg-Ni-phyllosilicate nanoscroll powders. Journal of Applied Crystallography, 2022, 55, 484-502.	4.5	4
5	CO2 fixation mechanism of kaolin treated with organic amines at varied temperatures and pressure. Applied Clay Science, 2022, 228, 106638.	5.2	4
6	Thermal behavior of Mgâ^'Niâ€phyllosilicate nanoscrolls and performance of the resulting composites in hexeneâ€1â€‰and acetone hydrogenation. ChemNanoMat, 2021, 7, 257-269.	2.8	7
7	Youngâ€™s modulus of phyllosilicate nanoscrolls measured by the AFM and by the in-situ TEM indentation. Nanosystems: Physics, Chemistry, Mathematics, 2021, 12, 118-127.	0.4	5
8	Surface Tension and Shear Strain Contributions to the Mechanical Behavior of Individual Mgâ€Niâ€Phyllosilicate Nanoscrolls. Particle and Particle Systems Characterization, 2021, 38, 2100153.	2.3	5
9	The influence of edge specific surface energy on the direction of hydrosilicate layers scrolling. Nanosystems: Physics, Chemistry, Mathematics, 2021, 12, 623-629.	0.4	2
10	Ultrafast Melting of Metalâ€“Organic Frameworks for Advanced Nanophotonics. Advanced Functional Materials, 2020, 30, 1908292.	14.9	31
11	Cation Doping Approach for Nanotubular Hydrosilicates Curvature Control and Related Applications. Crystals, 2020, 10, 654.	2.2	16
12	ENERGY MODELING OF COMPETITION BETWEEN TUBULAR AND PLATY MORPHOLOGIES OF CHRYSOTILE AND HALLOYSITE LAYERS. Clays and Clay Minerals, 2020, 68, 436-445.	1.3	10
13	Probing the dynamics of Cu nanoparticle growth inside metal-organic frameworks upon electron beam irradiation. Photonics and Nanostructures - Fundamentals and Applications, 2020, 41, 100832.	2.0	9
14	Subsolidus phase equilibria in the GdFeO3-SrFeO3- system in air. Ceramics International, 2020, 46, 24526-24533.	4.8	8
15	Synergistic Effect of Plasma and Laser Processes in Liquid for Alloyed-Nanoparticle Synthesis. Physical Review Applied, 2020, 13, .	3.8	13
16	Nanotubular Nickel Hydrosilicate and Its Thermal Annealing Products as Anode Materials for Lithium Ion Batteries. Inorganic Materials, 2020, 56, 1248-1257.	0.8	4
17	Metalâ€“Organic Frameworks in Modern Physics: Highlights and Perspectives. Advanced Science, 2019, 6, 1900506.	11.2	71
18	Sulfated Halloysite Nanoscrolls as Superacid Catalysts for Oligomerization of Hexene-1. Russian Journal of Applied Chemistry, 2019, 92, 1251-1257.	0.5	6

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19	Cation Redistribution along the Spiral of Niâ€Doped Phyllosilicate Nanoscrolls: Energy Modelling and STEM/EDS Study. ChemPhysChem, 2019, 20, 719-726.	2.1	11
20	Crystal violet adsorption by oppositely twisted heat-treated halloysite and pecoraite nanoscrolls. Applied Clay Science, 2019, 173, 1-11.	5.2	32
21	Laser printing of optically resonant hollow crystalline carbon nanostructures from 1D and 2D metalâ€“organic frameworks. Nanoscale, 2019, 11, 10155-10159.	5.6	18
22	Mechanism of formation of titanium dioxide crystallites in the reaction of titanium tetrachloride with magnesium hydrosilicate nanotubes. Materials Today Chemistry, 2019, 11, 156-168.	3.5	5
23	Effect of heterogeneous inclusions on the formation of TiO2 nanocrystals in hydrothermal conditions. Nanosystems: Physics, Chemistry, Mathematics, 2019, 10, 733-739.	0.4	3
24	The conformation of bovine serum albumin adsorbed to the surface of single allâ€dielectric nanoparticles following lightâ€induced heating. Journal of Biophotonics, 2018, 11, e201700322.	2.3	10
25	Metalâ€Dielectric Nanocavity for Realâ€Time Tracing Molecular Events with Temperature Feedback. Laser and Photonics Reviews, 2018, 12, 1700227.	8.7	45
26	On an adsorption/photocatalytic performance of nanotubular Mg3Si2O5(OH)4/TiO2 composite. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 410-416.	0.4	7
27	Formation mechanism of core-shell nanocrystals obtained via dehydration of coprecipitated hydroxides at hydrothermal conditions. Nanosystems: Physics, Chemistry, Mathematics, 2018, , 568-572.	0.4	6
28	van der Waals Metalâ€Organic Framework as an Excitonic Material for Advanced Photonics. Advanced Materials, 2017, 29, 1606034.	21.0	67
29	Comparative Energy Modeling of Multiwalled Mg₃Si₂O₅(OH)₄ and Ni₃Si₂O₅(OH)₄ Nanoscroll Growth. Journal of Physical Chemistry C, 2017, 121, 12495-12502.	3.1	21
30	Nano-architecture of metal-organic frameworks. AIP Conference Proceedings, 2017, , .	0.4	2
31	Effect of hydrothermal treatment conditions on formation of nickel hydrogermanate with platy morphology. Russian Journal of Applied Chemistry, 2017, 90, 22-27.	0.5	8
32	Boron-doped diamond synthesized at high-pressure and high-temperature with metal catalyst. Journal of Physics and Chemistry of Solids, 2017, 103, 224-237.	4.0	24
33	Redistribution of Mg and Ni cations in crystal lattice of conical nanotube with chrysotile structure. Nanosystems: Physics, Chemistry, Mathematics, 2017, , 620-627.	0.4	10
34	Formation of variable-composition iron(III) hydrosilicates with the Ñhrysotile structure. Russian Journal of General Chemistry, 2016, 86, 2581-2588.	0.8	6
35	Energy model of radial growth of a nanotubular crystal. Technical Physics Letters, 2016, 42, 55-58.	0.7	12
36	Solar photovoltaics: current state and trends. Physics-Uspekhi, 2016, 59, 727-772.	2.2	79

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37	Magnetic properties of synthetic Ni ₃ Si ₂ O ₅ (OH) ₄ nanotubes. Europhysics Letters, 2016, 113, 47006.	2.0	13
38	Morphology vs. chemical composition of single Ni-doped hydrosilicate nanoscroll. Materials Letters, 2016, 171, 68-71.	2.6	12
39	Energy model of bilayer nanoplate scrolling: Formation of chrysotile nanoscroll. Russian Journal of General Chemistry, 2015, 85, 2238-2241.	0.8	7
40	Control over morphology of magnesium-aluminum hydrosilicate nanoscrolls. Russian Journal of Applied Chemistry, 2015, 88, 1928-1935.	0.5	11
41	Formation of conical (Mg,Ni)3Si2O5(OH)4 nanoscrolls. Doklady Physical Chemistry, 2015, 460, 42-44.	0.9	11
42	Energy of formation of chrysotile nanotubes. Russian Journal of General Chemistry, 2014, 84, 2359-2363.	0.8	13
43	Structural and chemical transformations in the products of the interaction of silica gel with vapours of TiCl4 and H2O. Applied Surface Science, 2014, 288, 584-590.	6.1	2
44	Influence of component ratio in the compound (Mg,Fe)3Si2O5(OH)4 on the formation of nanotubular and platelike particles. Russian Journal of Applied Chemistry, 2013, 86, 1633-1637.	0.5	10
45	Effect of the structure of precursors on the formation of nanotubular magnesium hydrosilicate. Inorganic Materials, 2011, 47, 1111-1115.	0.8	14