

# Andrei A Krasilin

## List of Publications by Citations

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40  
papers

424  
citations

10  
h-index

18  
g-index

50  
ext. papers

550  
ext. citations

3.5  
avg, IF

3.97  
L-index

#	Paper	IF	Citations
40	Solar photovoltaics: current state and trends. <i>Physics-Uspekhi</i> , <b>2016</b> , 59, 727-772	2.8	57
39	van der Waals Metal-Organic Framework as an Excitonic Material for Advanced Photonics. <i>Advanced Materials</i> , <b>2017</b> , 29, 1606034	24	40
38	Metal-Organic Frameworks in Modern Physics: Highlights and Perspectives. <i>Advanced Science</i> , <b>2019</b> , 6, 1900506	13.6	39
37	Metal-Dielectric Nanocavity for Real-Time Tracing Molecular Events with Temperature Feedback. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1700227	8.3	36
36	Crystal violet adsorption by oppositely twisted heat-treated halloysite and pectoraite nanoscrolls. <i>Applied Clay Science</i> , <b>2019</b> , 173, 1-11	5.2	21
35	Solar photovoltaics: current state and trends. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2016</b> , 186, 801-852	0.5	21
34	Boron-doped diamond synthesized at high-pressure and high-temperature with metal catalyst. <i>Journal of Physics and Chemistry of Solids</i> , <b>2017</b> , 103, 224-237	3.9	19
33	Comparative Energy Modeling of Multiwalled Mg <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> and Ni <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> Nanoscroll Growth. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 12495-12502	3.8	17
32	Energy of formation of chrysotile nanotubes. <i>Russian Journal of General Chemistry</i> , <b>2014</b> , 84, 2359-2363	0.7	11
31	Ultrafast Melting of Metal-Organic Frameworks for Advanced Nanophotonics. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908292	15.6	11
30	Magnetic properties of synthetic Ni <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> nanotubes. <i>Europhysics Letters</i> , <b>2016</b> , 113, 47006	1.6	10
29	Laser printing of optically resonant hollow crystalline carbon nanostructures from 1D and 2D metal-organic frameworks. <i>Nanoscale</i> , <b>2019</b> , 11, 10155-10159	7.7	9
28	Morphology vs. chemical composition of single Ni-doped hydrosilicate nanoscroll. <i>Materials Letters</i> , <b>2016</b> , 171, 68-71	3.3	9
27	Effect of the structure of precursors on the formation of nanotubular magnesium hydrosilicate. <i>Inorganic Materials</i> , <b>2011</b> , 47, 1111-1115	0.9	9
26	Cation Redistribution along the Spiral of Ni-Doped Phyllosilicate Nanoscrolls: Energy Modelling and STEM/EDS Study. <i>ChemPhysChem</i> , <b>2019</b> , 20, 719-726	3.2	8
25	Formation of conical (Mg,Ni) <sub>3</sub> Si <sub>2</sub> O <sub>5</sub> (OH) <sub>4</sub> nanoscrolls. <i>Doklady Physical Chemistry</i> , <b>2015</b> , 460, 42-44	0.8	8
24	The conformation of bovine serum albumin adsorbed to the surface of single all-dielectric nanoparticles following light-induced heating. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700322	3.1	8

23	Influence of component ratio in the compound $(\text{Mg,Fe})_3\text{Si}_2\text{O}_5(\text{OH})_4$ on the formation of nanotubular and platelike particles. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 1633-1637	0.8	8
22	Control over morphology of magnesium-aluminum hydrosilicate nanoscrolls. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 1928-1935	0.8	7
21	Energy model of radial growth of a nanotubular crystal. <i>Technical Physics Letters</i> , <b>2016</b> , 42, 55-58	0.7	7
20	Synergistic Effect of Plasma and Laser Processes in Liquid for Alloyed-Nanoparticle Synthesis. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	6
19	Redistribution of Mg and Ni cations in crystal lattice of conical nanotube with chrysotile structure. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , <b>2017</b> , 620-627	1.8	6
18	Sulfated Halloysite Nanoscrolls as Superacid Catalysts for Oligomerization of Hexene-1. <i>Russian Journal of Applied Chemistry</i> , <b>2019</b> , 92, 1251-1257	0.8	5
17	Energy model of bilayer nanoplate scrolling: Formation of chrysotile nanoscroll. <i>Russian Journal of General Chemistry</i> , <b>2015</b> , 85, 2238-2241	0.7	5
16	On an adsorption/photocatalytic performance of nanotubular $\text{Mg}_3\text{Si}_2\text{O}_5(\text{OH})_4/\text{TiO}_2$ composite. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , <b>2018</b> , 410-416	1.8	5
15	Formation mechanism of core-shell nanocrystals obtained via dehydration of coprecipitated hydroxides at hydrothermal conditions. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , <b>2018</b> , 568-572	1.8	5
14	Cation Doping Approach for Nanotubular Hydrosilicates Curvature Control and Related Applications. <i>Crystals</i> , <b>2020</b> , 10, 654	2.3	5
13	ENERGY MODELING OF COMPETITION BETWEEN TUBULAR AND PLATY MORPHOLOGIES OF CHRYSOTILE AND HALLOYSITE LAYERS. <i>Clays and Clay Minerals</i> , <b>2020</b> , 68, 436-445	2.1	5
12	Effect of hydrothermal treatment conditions on formation of nickel hydrogermanate with platy morphology. <i>Russian Journal of Applied Chemistry</i> , <b>2017</b> , 90, 22-27	0.8	4
11	Formation of variable-composition iron(III) hydrosilicates with the Brysotile structure. <i>Russian Journal of General Chemistry</i> , <b>2016</b> , 86, 2581-2588	0.7	4
10	Effect of heterogeneous inclusions on the formation of $\text{TiO}_2$ nanocrystals in hydrothermal conditions. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , <b>2019</b> , 10, 733-739	1.8	3
9	Mechanism of formation of titanium dioxide crystallites in the reaction of titanium tetrachloride with magnesium hydrosilicate nanotubes. <i>Materials Today Chemistry</i> , <b>2019</b> , 11, 156-168	6.2	3
8	Probing the dynamics of Cu nanoparticle growth inside metal-organic frameworks upon electron beam irradiation. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2020</b> , 41, 100832	2.6	2
7	Subsolidus phase equilibria in the $\text{GdFeO}_3\text{-SrFeO}_3$ - system in air. <i>Ceramics International</i> , <b>2020</b> , 46, 24526-24532	5.4	2
6	Structural and chemical transformations in the products of the interaction of silica gel with vapours of $\text{TiCl}_4$ and $\text{H}_2\text{O}$ . <i>Applied Surface Science</i> , <b>2014</b> , 288, 584-590	6.7	2

5	Nano-architecture of metal-organic frameworks <b>2017</b> ,		2
4	Surface Tension and Shear Strain Contributions to the Mechanical Behavior of Individual Mg-Ni-Phyllosilicate Nanoscrolls. <i>Particle and Particle Systems Characterization</i> , 2100153	3.1	1
3	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. <i>Journal of Solid State Chemistry</i> , <b>2022</b> , 307, 122804	3.3	1
2	Thermal behavior of MgNi-phyllsilicate nanoscrolls and performance of the resulting composites in hexene-1 and acetone hydrogenation. <i>ChemNanoMat</i> , <b>2021</b> , 7, 257-269	3.5	1
1	Nanotubular Nickel Hydrosilicate and Its Thermal Annealing Products as Anode Materials for Lithium Ion Batteries. <i>Inorganic Materials</i> , <b>2020</b> , 56, 1248-1257	0.9	0