

# Alexandra A Suvorova

## List of Publications by Year in descending order

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96  
papers

3,679  
citations

186209

28  
h-index

133188

59  
g-index

96  
all docs

96  
docs citations

96  
times ranked

4790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large area van der Waals epitaxy of II-VI CdSe thin films for flexible optoelectronics and full-color imaging. <i>Nano Research</i> , 2022, 15, 368-376.	5.8	14
2	Gallium Plasmonic Nanoantennas Unveiling Multiple Kinetics of Hydrogen Sensing, Storage, and Spillover. <i>Advanced Materials</i> , 2021, 33, e2100500.	11.1	18
3	Ultrathin High-Quality SnTe Nanoplates for Fabricating Flexible Near-Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 31810-31822.	4.0	49
4	Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H <sub>2</sub> Fuel. <i>Advanced Materials</i> , 2019, 31, e1905540.	11.1	39
5	Colloidal quasi-one-dimensional dual semiconductor core/shell nanorod couple heterostructures with blue fluorescence. <i>Nanoscale</i> , 2019, 11, 10190-10197.	2.8	12
6	Photocatalysts: Colloidal Single-Layer Photocatalysts for Methanol-Storable Solar H <sub>2</sub> Fuel (Adv. Mater. 49/2019). <i>Advanced Materials</i> , 2019, 31, 1970348.	11.1	0
7	A FIB-STEM Study of Strontium Segregation and Interface Formation of Directly Assembled La <sub>0.6</sub> Sr <sub>0.4</sub> Co <sub>0.2</sub> Fe <sub>0.8</sub> O <sub>3-<math>\lambda</math></sub> Cathode on Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> Electrolyte of Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2018, 165, F417-F429.	1.3	41
8	Nanoscale partitioning of Ru, Ir, and Pt in base-metal sulfides from the Caridad chromite deposit, Cuba. <i>American Mineralogist</i> , 2018, 103, 1208-1220.	0.9	14
9	Nanogeochemistry of hydrothermal magnetite. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	1.2	63
10	Greenalite precipitation linked to the deposition of banded iron formations downslope from a late Archean carbonate platform. <i>Precambrian Research</i> , 2017, 290, 49-62.	1.2	72
11	Evidence and origin of different types of sedimentary organic matter from a Paleoproterozoic orogenic Au deposit. <i>Precambrian Research</i> , 2017, 299, 319-338.	1.2	20
12	Porous Carbon: Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO <sub>2</sub> Capture and Energy Applications (Adv. Funct. Mater. 47/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8650-8650.	7.8	7
13	Surface-tailored nanodiamonds as excellent metal-free catalysts for organic oxidation. <i>Carbon</i> , 2016, 103, 404-411.	5.4	164
14	Surface controlled generation of reactive radicals from persulfate by carbocatalysis on nanodiamonds. <i>Applied Catalysis B: Environmental</i> , 2016, 194, 7-15.	10.8	390
15	Dust to dust: Evidence for the formation of $\alpha$ -primary hematite dust in banded iron formations via oxidation of iron silicate nanoparticles. <i>Precambrian Research</i> , 2016, 284, 49-63.	1.2	54
16	Thermally stable coexistence of liquid and solid phases in gallium nanoparticles. <i>Nature Materials</i> , 2016, 15, 995-1002.	13.3	124
17	Heteroatom (N or N-S)-Doping Induced Layered and Honeycomb Microstructures of Porous Carbons for CO <sub>2</sub> Capture and Energy Applications. <i>Advanced Functional Materials</i> , 2016, 26, 8651-8661.	7.8	182
18	In situ assembled La <sub>0.8</sub> Sr <sub>0.2</sub> MnO <sub>3</sub> cathodes on a Y <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> electrolyte of solid oxide fuel cells interface and electrochemical activity. <i>RSC Advances</i> , 2016, 6, 99211-99219.	1.7	25

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19	Precipitation of iron silicate nanoparticles in early Precambrian oceans marks Earth's first iron age. <i>Geology</i> , 2015, 43, 303-306.	2.0	83
20	Enhancing Properties of High-Temperature Superconducting Step-Edge Josephson Junctions by Nano-Multilayers with a Small Mismatch. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300112.	1.9	5
21	The occurrence and composition of chevkinite-(Ce) and perrierite-(Ce) in tholeiitic intrusive rocks and lunar mare basalt. <i>American Mineralogist</i> , 2014, 99, 1911-1921.	0.9	12
22	Processing and Properties of BioCeramic Coatings onto 3D Ti-Mesh by DipCasting Method. <i>International Journal of Applied Ceramic Technology</i> , 2014, 11, 1030-1038.	1.1	2
23	Catalytic oxidation of organic pollutants on pristine and surface nitrogen-modified carbon nanotubes with sulfate radicals. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 134-141.	10.8	437
24	Effect of Interface energy and electron transfer on shape, plasmon resonance and SERS activity of supported surfactant-free gold nanoparticles. <i>RSC Advances</i> , 2014, 4, 29660.	1.7	2
25	The formation of fluvio-lacustrine ferruginous pisoliths in the extensive palaeochannels of the Yilgarn Craton, Western Australia. <i>Sedimentary Geology</i> , 2014, 313, 32-44.	1.0	12
26	A New Metal-Free Carbon Hybrid for Enhanced Photocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 16745-16754.	4.0	167
27	Cubic Phase Sn-Rich GeSn Nanocrystals in a Ge Matrix. <i>Crystal Growth and Design</i> , 2014, 14, 1617-1622.	1.4	33
28	Demonstrating the Capability of the High-Performance Plasmonic Gallium-Graphene Couple. <i>ACS Nano</i> , 2014, 8, 3031-3041.	7.3	48
29	Transformation of YSZ under high fluence argon ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 326, 283-288.	0.6	9
30	One-pot hydrothermal synthesis of ZnO-reduced graphene oxide composites using Zn powders for enhanced photocatalysis. <i>Chemical Engineering Journal</i> , 2013, 229, 533-539.	6.6	137
31	Correlation between microstructural and magnetic properties of Tb implanted ZnO. <i>AIP Conference Proceedings</i> , 2013, , .	0.3	7
32	The Iron Distribution and Magnetic Properties of Schistosome Eggshells: Implications for Improved Diagnostics. <i>PLoS Neglected Tropical Diseases</i> , 2013, 7, e2219.	1.3	22
33	Effects of Ad-atom Diffusivity Throughout Sb-Mediated Formation of Ge/Si Nanoislands. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1411, 45.	0.1	0
34	Tranquillityite: The last lunar mineral comes down to Earth. <i>Geology</i> , 2012, 40, 83-86.	2.0	14
35	Characterization of plasmonic nanostructures by analytical TEM. <i>Journal of Physics: Conference Series</i> , 2012, 371, 012078.	0.3	2
36	Optical Properties of Silicon Semiconductor-Supported Gold Nanoparticles Obtained by Sputtering. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8594-8599.	0.9	1

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37	Spin-related Effects in Scattering of Spin-Polarized Low-energy Electrons from Magnetic and Nonmagnetic Surfaces. Journal of Physics: Conference Series, 2012, 388, 132026.	0.3	0
38	Structural and compositional complexity of nitrogen implantation in silicon carbide. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 462-465.	0.6	3
39	Effect of annealing on the structural, electrical and magnetic properties of Gd-implanted ZnO thin films. Journal of Materials Science, 2012, 47, 1119-1126.	1.7	69
40	Ion implantation in diamond using 30keV Ga <sup>+</sup> focused ion beam. Diamond and Related Materials, 2011, 20, 1160-1164.	1.8	35
41	Spin-orbit effects in the (e,2e) scattering from a W(110) surface and thin gold layer. Journal of Physics: Conference Series, 2011, 288, 012015.	0.3	1
42	GaMg Alloy Nanoparticles for Broadly Tunable Plasmonics. Small, 2011, 7, 751-756.	5.2	37
43	Size dependence of the dielectric function of silicon-supported plasmonic gold nanoparticles. Physical Review B, 2010, 82, .	1.1	38
44	Fabrication of Si <sup>15</sup> C <sup>15</sup> N compounds in silicon carbide by ion implantation. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1294-1298.	0.6	8
45	Structural and optical properties of ZnO thin films by rf magnetron sputtering with rapid thermal annealing. Applied Physics Letters, 2008, 92, .	1.5	37
46	Magnetization reversal in exchange-biased $\text{Ni}/\text{NiO}/\text{Ni}$ layered structures. Physical Review B, 2007, 76, .	1.1	20
47	Er <sub>2</sub> O <sub>3</sub> as a high-K dielectric candidate. Applied Physics Letters, 2007, 91, 091914.	1.5	49
48	Multifunctional Nanocrystalline Thin Films of Er <sub>2</sub> O <sub>3</sub> : Interplay between Nucleation Kinetics and Film Characteristics. Advanced Functional Materials, 2007, 17, 3607-3612.	7.8	22
49	Secondary electron imaging of SiC-based structures in secondary electron microscope. Surface Science, 2007, 601, 4428-4432.	0.8	15
50	Application of two-electron spectroscopy in reflection for studying electronic structure of surfaces and thin films. Journal of Electron Spectroscopy and Related Phenomena, 2007, 161, 147-149.	0.8	2
51	Synthesis of buried silicon nitride layer in SiC by nitrogen implantation. Nuclear Instruments & Methods in Physics Research B, 2007, 257, 217-221.	0.6	1
52	Influence of Nanowire Density on the Shape and Optical Properties of Ternary InGaAs Nanowires. Nano Letters, 2006, 6, 599-604.	4.5	222
53	Effect of deposition conditions on mechanical properties of low-temperature PECVD silicon nitride films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 435-436, 453-459.	2.6	161
54	Magnesium oxide as a candidate high- $\epsilon_r$ gate dielectric. Applied Physics Letters, 2006, 88, 142901.	1.5	83

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55	Experimental evidence for the role of nonuniform modes in the asymmetric magnetization reversal of a Ni <sup>2+</sup> /NiO system. <i>Physical Review B</i> , 2006, 74, .	1.1	19
56	Structural Materials for NEMS/MEMS Devices. , 2006, , .		0
57	CHARACTERISTICS OF LOW TEMPERATURE PECVD SILICON NITRIDE FOR MEMS STRUCTURAL MATERIALS. <i>International Journal of Modern Physics B</i> , 2006, 20, 3799-3804.	1.0	4
58	ZrO <sub>2</sub> film interfaces with Si and SiO <sub>2</sub> . <i>Journal of Applied Physics</i> , 2005, 98, 033506.	1.1	25
59	Diffusion of boron in 6H and 4H SiC coimplanted with boron and nitrogen ions. <i>Journal of Applied Physics</i> , 2004, 96, 4960-4964.	1.1	12
60	Effect of Implantation Temperature on Redistribution of Al in SiC during Annealing. <i>Materials Science Forum</i> , 2004, 457-460, 897-900.	0.3	3
61	Measurements of insulator band parameters using combination of single-electron and two-electron spectroscopy. <i>Solid State Communications</i> , 2004, 129, 389-393.	0.9	17
62	Secondary-electron emission mechanism of LiF film by (e,2e) spectroscopy. <i>Surface Science</i> , 2004, 548, 187-199.	0.8	23
63	Comparison of interfaces for (Ba,Sr)TiO <sub>3</sub> films deposited on Si and SiO <sub>2</sub> /Si substrates. <i>Journal of Applied Physics</i> , 2004, 95, 2672-2675.	1.1	7
64	Charge-Related Problems Associated with X-Ray Microanalysis in the Variable Pressure Scanning Electron Microscope at Low Pressures. <i>Microscopy and Microanalysis</i> , 2003, 9, 155-165.	0.2	11
65	Local stresses induced by nanoscale As <sup>2-</sup> Sb clusters in GaAs matrix. <i>Applied Physics Letters</i> , 2002, 80, 377-379.	1.5	32
66	Study of interface formation of (Ba,Sr)TiO <sub>3</sub> thin films grown by rf sputter deposition on bare Si and thermal SiO <sub>2</sub> /Si substrates.. <i>Materials Research Society Symposia Proceedings</i> , 2002, 745, 9121/T7.12.1.	0.1	0
67	Anisotropy of the spatial distribution of In(Ga)As quantum dots in In(Ga)As-GaAs multilayer heterostructures studied by X-ray and synchrotron diffraction and transmission electron microscopy. <i>Semiconductors</i> , 2001, 35, 932-940.	0.2	5
68	Structural transformations in low-temperature grown GaAs:Sb. <i>Journal Physics D: Applied Physics</i> , 2001, 34, A15-A18.	1.3	13
69	Enhanced As <sup>2-</sup> Sb intermixing of GaSb monolayer superlattices in low-temperature grown GaAs. <i>Applied Physics Letters</i> , 2001, 79, 1294-1296.	1.5	26
70	Long-wavelength emission from self-organized InAs quantum dots on GaAs substrates. <i>Microelectronics Journal</i> , 2000, 31, 1-7.	1.1	17
71	Stacked InAs/InGaAs quantum dot heterostructures for optical sources emitting in the 1.3 Åμm wavelength range. <i>Semiconductors</i> , 2000, 34, 594-597.	0.2	6
72	Accumulation of majority charge carriers in GaAs layers containing arsenic nanoclusters. <i>Semiconductors</i> , 2000, 34, 1068-1072.	0.2	4

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73	Transient enhanced diffusion of aluminum in SiC during high temperature ion implantation. Journal of Applied Physics, 1999, 86, 6039-6042.	1.1	31
74	In <sup>+</sup> Ga intermixing in low-temperature grown GaAs delta doped with In. Applied Physics Letters, 1999, 74, 1442-1444.	1.5	28
75	Enhanced precipitation of excess As on antimony delta layers in low-temperature-grown GaAs. Applied Physics Letters, 1999, 74, 1588-1590.	1.5	28
76	Long-wavelength emission in structures with quantum dots formed in the stimulated decomposition of a solid solution at strained islands. Semiconductors, 1999, 33, 901-905.	0.2	57
77	MBE Growth and Characterization of Composite InAlAs/In(Ga)As Vertically Aligned Quantum Dots. Materials Research Society Symposia Proceedings, 1999, 571, 109.	0.1	3
78	Indium layers in low-temperature gallium arsenide: Structure and how it changes under annealing in the temperature range 500 <sup>+</sup> 700 <sup>+</sup> C. Semiconductors, 1998, 32, 683-688.	0.2	10
79	Accumulation of electrons in GaAs layers grown at low temperatures and containing arsenic clusters. Semiconductors, 1998, 32, 1044-1047.	0.2	2
80	Capacitance-voltage profiling of Au/n-GaAs Schottky barrier structures containing a layer of self-organized InAs quantum dots. Semiconductors, 1998, 32, 1096-1100.	0.2	25
81	Lateral association of vertically-coupled quantum dots. Microelectronic Engineering, 1998, 43-44, 37-43.	1.1	19
82	Formation of InSb quantum dots in a GaSb matrix using molecular-beam epitaxy. Microelectronic Engineering, 1998, 43-44, 85-90.	1.1	15
83	Formation of InSb quantum dots in a GaSb matrix. Journal of Electronic Materials, 1998, 27, 414-417.	1.0	12
84	Electron escape from self-assembled InAs/GaAs quantum dot stacks. Physica B: Condensed Matter, 1998, 249-251, 267-270.	1.3	8
85	Optical properties of InAlAs quantum dots in an AlGaAs matrix. Applied Surface Science, 1998, 123-124, 381-384.	3.1	21
86	TEM and cathodoluminescence studies of porous SiC. Semiconductor Science and Technology, 1998, 13, 1111-1116.	1.0	21
87	Bistability of charge accumulated in low-temperature-grown GaAs. Applied Physics Letters, 1998, 73, 2796-2798.	1.5	8
88	Capacitance Spectroscopy of Thin GaAs Layers Grown by Molecular Beam Epitaxy at Low Temperatures. Solid State Phenomena, 1997, 57-58, 495-500.	0.3	0
89	HREM study of ion implantation in 6H-SiC at high temperatures. Journal of Electron Microscopy, 1997, 46, 271-279.	0.9	8
90	Diamond nanocrystals in hydrogenated amorphous carbon grown by ion sputtering of graphite. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1997, 76, 973-978.	0.6	18

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91	Arrays of strained InAs quantum dots in an (In Ga)As matrix, grown on InP substrates by molecular-beam epitaxy. Semiconductors, 1997, 31, 1080-1083.	0.2	24
92	Modulation of a quantum well potential by a quantum-dot array. Semiconductors, 1997, 31, 88-91.	0.2	6
93	Lateral association of vertically coupled quantum dots. Semiconductors, 1997, 31, 722-725.	0.2	13
94	Defect characterization in high temperature implanted ${}^6\text{Li}-\text{SiC}$ using TEM. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 347-349.	0.6	14
95	Majority carrier accumulation in low-temperature-grown GaAs layer inserted into n-and p-type matrices. , 0, , .		0
96	Enhanced intermixing in anion and cation sublattices of low-temperature grown GaAs. , 0, , .		0