# Sergei Vlassov

List of Publications by Year
in descending order

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| 64 | 907 | 394286 | 552653 |
|---|---|---|---|
| papers | citations | 19 | 26 |
| | | h-index | g-index |

| 69 | 69 | 69 | 1248 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Kinking in Semiconductor Nanowires: A Review. Crystal Growth and Design, 2022, 22, 871-892. | 1.4 | 6 |
| 2 | Unraveling the Structure and Properties of Layered and Mixed ReO<sub>3</sub>â€“WO<sub>3</sub> Thin Films Deposited by Reactive DC Magnetron Sputtering. ACS Omega, 2022, 7, 1827-1837. | 1.6 | 3 |
| 3 | Antimicrobial Activity of Commercial Photocatalytic SaniTiseâ„¢ Window Glass. Catalysts, 2022, 12, 197. | 1.6 | 5 |
| 4 | Thermal, Mechanical, and Acoustic Properties of Polydimethylsiloxane Filled with Hollow Glass Microspheres. Materials, 2022, 15, 1652. | 1.3 | 8 |
| 5 | CO2 reduction to formate on an affordable bismuth metal-organic framework based catalyst. Journal of CO2 Utilization, 2022, 59, 101937. | 3.3 | 12 |
| 6 | The role of Al2O3 interlayer in the synthesis of ZnS/Al2O3/MoS2 core-shell nanowires. Journal of Alloys and Compounds, 2022, 918, 165648. | 2.8 | 4 |
| 7 | Preparation of functional Ga2S3 and Ga2Se3 shells around Ga2O3 nanowires via sulfurization or selenization. Optical Materials, 2022, 131, 112675. | 1.7 | 1 |
| 8 | Low-density PDMS foams by controlled destabilization of thixotropic emulsions. Journal of Colloid and Interface Science, 2022, 626, 265-275. | 5.0 | 8 |
| 9 | Application of polydimethylsiloxane in photocatalyst composite materials: A review. Reactive and Functional Polymers, 2021, 158, 104781. | 2.0 | 27 |
| 10 | Ironâ€Containing Nitrogenâ€Doped Carbon Nanomaterials Prepared via NaCl Template as Efficient Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2021, 8, 2288-2297. | 1.7 | 7 |
| 11 | Silver Nanowireâ€Based Catalysts for Oxygen Reduction Reaction in Alkaline Solution. ChemCatChem, 2021, 13, 4364-4371. | 1.8 | 10 |
| 12 | The Adhesionâ€Enhanced Contact Electrification and Efficiency of Triboelectric Nanogenerators. Macromolecular Materials and Engineering, 2020, 305, 1900638. | 1.7 | 21 |
| 13 | Fused Hybrid Linkers for Metalâ€“Organic Framework-Derived Bifunctional Oxygen Electrocatalysts. ACS Applied Energy Materials, 2020, 3, 152-157. | 2.5 | 19 |
| 14 | Understanding the Conversion Process of Magnetron-Deposited Thin Films of Amorphous ReO<sub>x</sub> to Crystalline ReO<sub>3</sub> upon Thermal Annealing. Crystal Growth and Design, 2020, 20, 6147-6156. | 1.4 | 3 |
| 15 | Transparent ZnO-coated polydimethylsiloxane-based material for photocatalytic purification applications. Journal of Coatings Technology Research, 2020, 17, 573-579. | 1.2 | 8 |
| 16 | The effect of heat treatment on the morphology and mobility of Au nanoparticles. Beilstein Journal of Nanotechnology, 2020, 11, 61-67. | 1.5 | 4 |
| 17 | Hydrophilic polydimethylsiloxane-based sponges for dewatering applications. Materials Letters, 2020, 263, 127278. | 1.3 | 7 |
| 18 | Stronger Reductive Environment in Solvothermal Synthesis Leads to Improved Ga Doping Efficiency in ZnO Nanocrystals and Enhanced Plasmonic Absorption. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900335. | 0.8 | 0 |

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|---|---|---|---|
| 19 | Sol-gel auto-combustion synthesis of Ca2Fe2O5 brownmillerite nanopowders and thin films for advanced oxidation photoelectrochemical water treatment in visible light. Journal of Environmental Chemical Engineering, 2019, 7, 103224. | 3.3 | 14 |
| 20 | Mechanical characterisation of pentagonal gold nanowires in three different test configurations: A comparative study. Micron, 2019, 124, 102686. | 1.1 | 7 |
| 21 | Abrupt elastic-to-plastic transition in pentagonal nanowires under bending. Beilstein Journal of Nanotechnology, 2019, 10, 2468-2476. | 1.5 | 3 |
| 22 | High performance catalysts based on Fe/N co-doped carbide-derived carbon and carbon nanotube composites for oxygen reduction reaction in acid media. International Journal of Hydrogen Energy, 2019, 44, 12636-12648. | 3.8 | 38 |
| 23 | Low-friction nanojoint prototype. Nanotechnology, 2018, 29, 195707. | 1.3 | 1 |
| 24 | Iron and Nitrogen Coâ€doped Carbideâ€Derived Carbon and Carbon Nanotube Composite Catalysts for Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1827-1836. | 1.7 | 42 |
| 25 | Fast-Response Single-Nanowire Photodetector Based on ZnO/WS<sub>2</sub> Core/Shell Heterostructures. ACS Applied Materials & Interfaces, 2018, 10, 13869-13876. | 4.0 | 60 |
| 26 | Au nanowire junction breakup through surface atom diffusion. Nanotechnology, 2018, 29, 015704. | 1.3 | 27 |
| 27 | Adhesion and Mechanical Properties of PDMS-Based Materials Probed with AFM: A Review. Reviews on Advanced Materials Science, 2018, 56, 62-78. | 1.4 | 36 |
| 28 | Tuning adhesion forces between functionalized gold colloidal nanoparticles and silicon AFM tips: role of ligands and capillary forces. Beilstein Journal of Nanotechnology, 2018, 9, 660-670. | 1.5 | 14 |
| 29 | Formation and characterization of microcantilevers produced from ionic liquid by electron beam irradiation. Journal of Molecular Liquids, 2017, 229, 45-50. | 2.3 | 3 |
| 30 | A comparative study of heterostructured CuO/CuWO4 nanowires and thin films. Journal of Crystal Growth, 2017, 480, 78-84. | 0.7 | 17 |
| 31 | Enhanced flexibility and electron-beam-controlled shape recovery in alumina-coated Au and Ag coreâ€“shell nanowires. Nanotechnology, 2017, 28, 505707. | 1.3 | 15 |
| 32 | Mechanical properties of individual fiber segments of electrospun lignocelluloseâ€reinforced poly(vinyl alcohol). Journal of Applied Polymer Science, 2017, 134, . | 1.3 | 6 |
| 33 | Synthesis and characterization of ZnO/ZnS/MoS2 core-shell nanowires. Journal of Crystal Growth, 2017, 459, 100-104. | 0.7 | 20 |
| 34 | Phosphonium-based ionic liquids mixed with stabilized oxide nanoparticles as highly promising lubricating oil additives. Proceedings of the Estonian Academy of Sciences, 2017, 66, 174. | 0.9 | 4 |
| 35 | Complex tribomechanical characterization of ZnO nanowires: nanomanipulations supported by FEM simulations. Nanotechnology, 2016, 27, 335701. | 1.3 | 19 |
| 36 | Effect of cobalt doping on the mechanical properties of ZnO nanowires. Materials Characterization, 2016, 121, 40-47. | 1.9 | 8 |

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|---|---|---|---|
| 37 | Unexpected Epitaxial Growth of a Few WS<sub>2</sub> Layers on {11Ì...00} Facets of ZnO Nanowires. Journal of Physical Chemistry C, 2016, 120, 21451-21459. | 1.5 | 22 |
| 38 | Structural factor in bending testing of fivefold twinned nanowires revealed by finite element analysis. Physica Scripta, 2016, 91, 115701. | 1.2 | 4 |
| 39 | Mechanical and structural characterizations of gamma- and alpha-alumina nanofibers. Materials Characterization, 2015, 107, 119-124. | 1.9 | 25 |
| 40 | Phase and structural transformations in annealed copper coatings in relation to oxide whisker growth. Applied Surface Science, 2015, 346, 423-427. | 3.1 | 9 |
| 41 | Phase transformations in icosahedral small copper particles during their annealing in different gas media. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 1098-1100. | 0.1 | 1 |
| 42 | Elastic Properties of Oxide Nanowhiskers Prepared from Electrolytically Deposited Copper. Russian Physics Journal, 2015, 58, 843-847. | 0.2 | 1 |
| 43 | Metal nanodumbbells for nanomanipulations and tribological experiments. Physica Scripta, 2015, 90, 094007. | 1.2 | 4 |
| 44 | Plasmonic photoluminescence enhancement by silver nanowires. Physica Scripta, 2015, 90, 094008. | 1.2 | 2 |
| 45 | Mechanical characterization of TiO2 nanofibers produced by different electrospinning techniques. Materials Characterization, 2015, 100, 98-103. | 1.9 | 25 |
| 46 | Electron beam induced growth of silver nanowhiskers. Journal of Crystal Growth, 2015, 410, 63-68. | 0.7 | 11 |
| 47 | Mechanical properties of solâ€“gel derived SiO<sub>2</sub> nanotubes. Beilstein Journal of Nanotechnology, 2014, 5, 1808-1814. | 1.5 | 9 |
| 48 | Shape Restoration Effect in Agâ€“SiO<sub>2</sub> Coreâ€“Shell Nanowires. Nano Letters, 2014, 14, 5201-5205. | 4.5 | 26 |
| 49 | Some aspects of formation and tribological properties of silver nanodumbbells. Nanoscale Research Letters, 2014, 9, 186. | 3.1 | 11 |
| 50 | Elasticity and yield strength of pentagonal silver nanowires: In situ bending tests. Materials Chemistry and Physics, 2014, 143, 1026-1031. | 2.0 | 50 |
| 51 | Analysis of static friction and elastic forces in a nanowire bent on a flat surface: A comparative study. Tribology International, 2014, 72, 31-34. | 3.0 | 15 |
| 52 | Manipulation of nanoparticles of different shapes inside a scanning electron microscope. Beilstein Journal of Nanotechnology, 2014, 5, 133-140. | 1.5 | 24 |
| 53 | Realâ€time manipulation of ZnO nanowires on a flat surface employed for tribological measurements: Experimental methods and modeling. Physica Status Solidi (B): Basic Research, 2013, 250, 305-317. | 0.7 | 26 |
| 54 | Integrated carbon nanotube fibreâ€“quartz tuning fork biosensor. Proceedings of the Estonian Academy of Sciences, 2012, 61, 48. | 0.9 | 4 |

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|---|---|---|---|
| 55 | Modeling of kinetic and static friction between an elastically bent nanowire and a flat surface. Journal of Materials Research, 2012, 27, 580-585. | 1.2 | 22 |
| 56 | In situ measurements of ultimate bending strength of CuO and ZnO nanowires. European Physical Journal B, 2012, 85, 1. | 0.6 | 19 |
| 57 | The effect of substrate roughness on the static friction of CuO nanowires. Surface Science, 2012, 606, 1393-1399. | 0.8 | 23 |
| 58 | Simultaneous measurement of static and kinetic friction of ZnO nanowires in situ with a scanning electron microscope. Micron, 2012, 43, 1140-1146. | 1.1 | 11 |
| 59 | Application of Tuning Fork Sensors for In-situ Studies of Dynamic Force Interactions Inside Scanning and Transmission Electron Microscopes. Medziagotyra, 2012, 18, . | 0.1 | 1 |
| 60 | Real-time measurements of sliding friction and elastic properties of ZnO nanowires inside a scanning electron microscope. Solid State Communications, 2011, 151, 1244-1247. | 0.9 | 22 |
| 61 | Real-time manipulation of gold nanoparticles inside a scanning electron microscope. Solid State Communications, 2011, 151, 688-692. | 0.9 | 17 |
| 62 | Pentagonal Nanorods and Nanoparticles with Mismatched Shell Layers. Journal of Nanoscience and Nanotechnology, 2010, 10, 6136-6143. | 0.9 | 9 |
| 63 | Crystal mismatched layers in pentagonal nanorods and nanoparticles. Physica Status Solidi (B): Basic Research, 2010, 247, 288-298. | 0.7 | 24 |
| 64 | Sol-Gel Derived SnO2 Nanometric Fibers. Materials Research Society Symposia Proceedings, 2007, 1017, 111. | 0.1 | 0 |