

# Victor V Moshchalkov

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

1,692  
citations

279798

23  
h-index

289244

40  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2438  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlocal response of plasmonic core-shell nanotopologies excited by dipole emitters. <i>Nanoscale Advances</i> , 2022, 4, 2346-2355.	4.6	1
2	Low-temperature transport properties of doped $\text{Ba}_{0.57}\text{K}_{0.43}\text{Fe}$ superconductors in high magnetic field. <i>Physical Review B</i> , 2021, 103, .		0
3	Hydrodynamic Approach for Deep-nanometer Scale Topologies: Analysis of Metallic Shell. , 2021, , .		0
4	Nonlocal Response of Plasmonic Nanostructures Excited by Dipole Emitters. , 2021, , .		0
5	Synchronous Temperature and Magnetic Field Dual-Sensing by Luminescence in a Dysprosium Single-Molecule Magnet. <i>Advanced Optical Materials</i> , 2021, 9, 2101495.	7.3	24
6	Appropriate Nonlocal Hydrodynamic Models for the Characterization of Deep-Nanometer Scale Plasmonic Scatterers. <i>Advanced Theory and Simulations</i> , 2020, 3, 1900172.	2.8	24
7	Modal Analysis of Deep Nanoscale Plasmonic Structures: Nonlocal Hydrodynamic Approach. , 2020, , .		0
8	Yu-Shiba-Rusinov bands in ferromagnetic superconducting diamond. <i>Science Advances</i> , 2020, 6, eaz2536.	10.3	9
9	Nonlocal Hydrodynamic Models for the Optical Response of Plasmonic Nanostructures. , 2020, , .		0
10	A Review on the Application of Integral Equation-Based Computational Methods to Scattering Problems in Plasmonics. <i>Advanced Theory and Simulations</i> , 2019, 2, 1900087.	2.8	12
11	Exploring the impact of core expansion on the vortex distribution in superconducting normal-metal hybrid nanostructures. <i>Physical Review B</i> , 2019, 100, .	3.2	6
12	A Potential-Based Formalism for Modeling Local and Hydrodynamic Nonlocal Responses From Plasmonic Waveguides. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 3948-3960.	5.1	16
13	Anomalous Anisotropy in Superconducting Nanodiamond Films Induced by Crystallite Geometry. <i>Physical Review Applied</i> , 2019, 12, .	3.8	5
14	On a Unified Approach Towards the Modeling of Nonlocal Hydrodynamic Non-classical Response from Plasmonic Nanotopologies. , 2019, , .		0
15	Direct Observation of Nanoscale Light Confinement without Metal. <i>Advanced Materials</i> , 2019, 31, e1806341.	21.0	17
16	Simultaneously Control the Optical and Paramagnetic Properties of Bifunctional $\text{Na}(\text{YO}_{0.8}\text{-xDy}\text{Yb}_{0.18}\text{Er}_{0.02})\text{F}_4$ Nanoparticles. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-6.	2.9	0
17	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. <i>Physical Review Materials</i> , 2019, 3, .	2.4	5
18	Enantiomorphing Chiral Plasmonic Nanostructures: A Counterintuitive Sign Reversal of the Nonlinear Circular Dichroism. <i>Advanced Optical Materials</i> , 2018, 6, 1800153.	7.3	16

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19	Spin State Crossover, Vibrational, Computational, and Structural Studies of Fe <sup>II</sup> 1- <i>isopropyl</i> - <i>H</i> - <i>tetrazole</i> Derivatives. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 394-413.	2.0	7
20	Comparison of Hydrodynamic Models for the Electromagnetic Nonlocal Response of Nanoparticles. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800076.	2.8	37
21	Tunable and switchable magnetic dipole patterns in nanostructured superconductors. <i>Nature Communications</i> , 2018, 9, 2576.	12.8	6
22	Chiral Nanomaterials: Enantiomorphing Chiral Plasmonic Nanostructures: A Counterintuitive Sign Reversal of the Nonlinear Circular Dichroism ( <i>Advanced Optical Materials</i> 14/2018). <i>Advanced Optical Materials</i> , 2018, 6, 1870057.	7.3	1
23	How Ultranarrow Gap Symmetries Control Plasmonic Nanocavity Modes: From Cubes to Spheres in the Nanoparticle-on-Mirror. <i>ACS Photonics</i> , 2017, 4, 469-475.	6.6	115
24	Statistics of localized phase slips in tunable width planar point contacts. <i>Scientific Reports</i> , 2017, 7, 44569.	3.3	17
25	Revealing Nanostructures through Plasmon Polarimetry. <i>ACS Nano</i> , 2017, 11, 850-855.	14.6	33
26	Electrically Driven Unidirectional Optical Nanoantennas. <i>Nano Letters</i> , 2017, 17, 7433-7439.	9.1	56
27	Near-Field Mapping of Optical Fabry-Pérot Modes in All-Dielectric Nanoantennas. <i>Nano Letters</i> , 2017, 17, 7629-7637.	9.1	17
28	Dendritic optical antennas: scattering properties and fluorescence enhancement. <i>Scientific Reports</i> , 2017, 7, 6223.	3.3	3
29	Nematic superconducting state in iron pnictide superconductors. <i>Nature Communications</i> , 2017, 8, 1880.	12.8	33
30	Wavelength-Dependent Nonlinear Optical Properties of Ag Nanoparticles Dispersed in a Glass Host. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27580-27589.	3.1	45
31	Bosonic Confinement and Coherence in Disordered Nanodiamond Arrays. <i>ACS Nano</i> , 2017, 11, 11746-11754.	14.6	16
32	Direct visualization of vortex ice in a nanostructured superconductor. <i>Physical Review B</i> , 2017, 96, .	3.2	15
33	Controlled Generation of Quantized Vortex-Antivortex Pairs in a Superconducting Condensate. <i>Nano Letters</i> , 2017, 17, 5003-5007.	9.1	15
34	Bosonic Anomalies in Boron-Doped Polycrystalline Diamond. <i>Physical Review Applied</i> , 2016, 6, .	3.8	30
35	Nanoscale assembly of superconducting vortices with scanning tunnelling microscope tip. <i>Nature Communications</i> , 2016, 7, 13880.	12.8	43
36	Fast Dynamic Color Switching in Temperature-Responsive Plasmonic Films. <i>Advanced Optical Materials</i> , 2016, 4, 877-882.	7.3	56

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37	Magnetic dipoles at topological defects in the Meissner state of a nanostructured superconductor. Physical Review B, 2016, 93, .	3.2	8
38	Thermal and quantum depletion of superconductivity in narrow junctions created by controlled electromigration. Nature Communications, 2016, 7, 10560.	12.8	41
39	On the Use of Group Theory in Understanding the Optical Response of a Nanoantenna. IEEE Transactions on Antennas and Propagation, 2015, 63, 1589-1602.	5.1	18
40	Local destruction of superconductivity by non-magnetic impurities in mesoscopic iron-based superconductors. Nature Communications, 2015, 6, 7614.	12.8	19
41	A radio-frequency coil for the microwave characterization of vortex dynamics in thin film superconductors. Review of Scientific Instruments, 2015, 86, 064701.	1.3	1
42	Bound vortex dipoles generated at pinning centres by Meissner current. Nature Communications, 2015, 6, 6573.	12.8	27
43	Direct visualization of vortex pattern transition in $\text{ZrB}_{12}$ with Ginzburg-Landau parameter close to the dual point. Physical Review B, 2014, 90, .	3.2	27
44	Determination of the lower critical field $H_1(T)$ in FeSe single crystals by magnetization measurements. Physica C: Superconductivity and Its Applications, 2014, 503, 143-145.	1.2	7
45	Plasmonic Nanoantennas: Lateral Magnetic Near-Field Imaging of Plasmonic Nanoantennas With Increasing Complexity (Small 10/2014). Small, 2014, 10, 1958-1958.	10.0	0
46	Directional Fluorescence Emission by Individual V-Antennas Explained by Mode Expansion. ACS Nano, 2014, 8, 8232-8241.	14.6	84
47	Impurity effects on the normal-state transport properties of $\text{Ba}_{0.5}\text{K}_{0.5}\text{FeAs}_2$ . Physical Review B, 2014, 90, .		
48	A facile way to introduce planar defects into colloidal photonic crystals for pronounced passbands. Journal of Materials Chemistry C, 2014, 2, 8829-8836.	5.5	17
49	Vortex phase transition and isotropic flux dynamics in $\text{K}_{0.8}\text{Fe}_2\text{Se}_2$ single crystal lightly doped with Mn. Applied Physics Letters, 2013, 103, 052602.	3.3	25
50	Direct observation of the depairing current density in single-crystalline $\text{Ba}_{0.5}\text{K}_{0.5}\text{Fe}_2\text{As}_2$ microbridge with nanoscale thickness. Applied Physics Letters, 2013, 103, .	3.3	23
51	Metal-Bosonic Insulator-Superconductor Transition in Boron-Doped Granular Diamond. Physical Review Letters, 2013, 110, 077001.	7.8	44
52	Synthesis of PEGylated Magnetic Nanoparticles With Different Core Sizes. IEEE Transactions on Magnetism, 2013, 49, 219-226.	2.1	9
53	Line Position and Quality Factor of Plasmonic Resonances Beyond the Quasi-Static Limit: A Full-Wave Eigenmode Analysis Route. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 4600908-4600908.	2.9	25
54	Nanostripe length dependence of plasmon-induced material deformations. Optics Letters, 2013, 38, 2256.	3.3	18

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55	Solution of linearized Ginzburg-Landau problem for mesoscopic superconductors by conformal mapping. Journal of Physics: Conference Series, 2013, 410, 012162.	0.4	1
56	Interacting plasmonic nanostructures beyond the quasi-static limit: a "circuit" model. Optics Express, 2013, 21, 31105.	3.4	16
57	Quantum states and vortex patterns in nanosuperconductors. Annalen Der Physik, 2013, 525, 951-956.	2.4	6
58	Visible-UV/Violet Upconversion Dynamics in Er <sup>3+</sup> -Doped Oxyfluoride Nanoscale Glass Ceramics. Advanced Optical Materials, 2013, 1, 747-752.	7.3	28
59	Multi-level hierarchical meshing for nanotopologies in Volumetric Method of Moments. , 2012, , .		0
60	Heterometallic CuI/DyIII 1D chiral polymers: chirogenesis and exchange coupling of toroidal moments in trinuclear Dy <sub>3</sub> single molecule magnets. Chemical Science, 2012, 3, 1169.	7.4	146
61	Energy-transfer luminescence of a zinc oxide/ytterbium oxide nanocomposite. RSC Advances, 2012, 2, 8783.	3.6	23
62	Plasmonics: Plasmon-Enhanced Sub-Wavelength Laser Ablation: Plasmonic Nanojets (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 21.0 0		0
63	The Integral Equation technique: Applications at THz, IR, and optical frequencies. , 2011, , .		0
64	The Method of Moments at IR and optical frequencies. , 2011, , .		1
65	Vortex matter in mesoscopic two-gap superconductor square. Physical Review B, 2011, 84, .	3.2	38
66	Preparing polymer films doped with magnetic nanoparticles by spin-coating and melt-processing can induce an in-plane magnetic anisotropy. Journal of Applied Physics, 2011, 109, .	2.5	12
67	Joule Heating Induced Nonlinear Behavior in the Phase-Separated System (La <sub>0.73</sub> Bi <sub>0.27</sub> ) <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> . Journal of Low Temperature Physics, 2011, 163, 176-183.	1.4	1
68	Self-assembled hexagonal double fishnets as negative index materials. Applied Physics Letters, 2011, 98, 091101.	3.3	27
69	The origin of second harmonic generation hotspots in chiral optical metamaterials. , 2011, , .		1
70	Scanning SQUID microscopy of vortex clusters in multiband superconductors. Physical Review B, 2010, 81, .	3.2	64
71	On the use of the Method of Moments in plasmonic applications. , 2010, , .		2
72	Fano resonances in spectroscopy of individual hybridized plasmonic nanocavities. , 2009, , .		0

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73	Type-1.5 Superconductivity. <i>Physical Review Letters</i> , 2009, 102, 117001.	7.8	230
74	Ginzburgâ€“Landau Theory: A Powerful Tool to Study Vortex Matter in Nanostructured Superconductors. <i>Journal of Superconductivity and Novel Magnetism</i> , 2007, 19, 409-416.	1.8	4
75	Vortex pinning in Nb thin films modulated by nanospheres. <i>Journal of Applied Physics</i> , 2006, 100, 044307.	2.5	9
76	Singleâ€“Molecule Fluorescence Enhancement by Plasmonic Coreâ€“Shell Nanostructures Incorporating Nonlocal Effects. <i>Advanced Theory and Simulations</i> , 0, , 2100558.	2.8	1