

Sergey M Novikov

List of Publications by Year in descending order

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79
papers

3,364
citations

236612

25
h-index

143772

57
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82
all docs

82
docs citations

82
times ranked

4734
citing authors

#	ARTICLE	IF	CITATIONS
1	Demonstration of Magnetic Dipole Resonances of Dielectric Nanospheres in the Visible Region. <i>Nano Letters</i> , 2012, 12, 3749-3755.	4.5	857
2	Plasmonic black gold by adiabatic nanofocusing and absorption of light in ultra-sharp convex grooves. <i>Nature Communications</i> , 2012, 3, 969.	5.8	274
3	Sensing using plasmonic nanostructures and nanoparticles. <i>Nanotechnology</i> , 2015, 26, 322001.	1.3	199
4	Penâ€œonâ€œPaper Approach Toward the Design of Universal Surface Enhanced Raman Scattering Substrates. <i>Small</i> , 2014, 10, 3065-3071.	5.2	185
5	Giant optical anisotropy in transition metal dichalcogenides for next-generation photonics. <i>Nature Communications</i> , 2021, 12, 854.	5.8	154
6	Hierarchical Self-Assembly of Gold Nanoparticles into Patterned Plasmonic Nanostructures. <i>ACS Nano</i> , 2014, 8, 10694-10703.	7.3	137
7	Broadband optical properties of monolayer and bulk MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2020, 4, .	3.9	112
8	Extraordinary Optical Transmission Enhanced by Nanofocusing. <i>Nano Letters</i> , 2010, 10, 3123-3128.	4.5	89
9	Probing cytochrome c in living mitochondria with surface-enhanced Raman spectroscopy. <i>Scientific Reports</i> , 2015, 5, 13793.	1.6	87
10	Resonant Plasmon Nanofocusing by Closed Tapered Gaps. <i>Nano Letters</i> , 2010, 10, 291-295.	4.5	79
11	Direct Amplitude-Phase Near-Field Observation of Higher-Order Anapole States. <i>Nano Letters</i> , 2017, 17, 7152-7159.	4.5	79
12	Collective Plasmonic Properties in Few-Layer Gold Nanorod Supercrystals. <i>ACS Photonics</i> , 2015, 2, 1482-1488.	3.2	75
13	Plasmon Modes and Hot Spots in Gold Nanostarâ€œSatellite Clusters. <i>Journal of Physical Chemistry C</i> , 2015, 119, 10836-10843.	1.5	64
14	Surface enhanced Raman imaging: periodic arrays and individual metal nanoparticles. <i>Optics Express</i> , 2009, 17, 12698.	1.7	49
15	Laser Writing of Bright Colors on Near-Percolation Plasmonic Reflector Arrays. <i>ACS Nano</i> , 2019, 13, 71-77.	7.3	49
16	Ultrathin and Ultrasmooth Gold Films on Monolayer MoS ₂ . <i>Advanced Materials Interfaces</i> , 2019, 6, 1900196.	1.9	45
17	Topological phase singularities in atomically thin high-refractive-index materials. <i>Nature Communications</i> , 2022, 13, 2049.	5.8	43
18	Highly Stable Monocrystalline Silver Clusters for Plasmonic Applications. <i>Langmuir</i> , 2017, 33, 6062-6070.	1.6	40

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19	Field enhancement and extraordinary optical transmission by tapered periodic slits in gold films. <i>New Journal of Physics</i> , 2011, 13, 063029.	1.2	36
20	Synthesis of Large Area Two-Dimensional MoS ₂ Films by Sulfurization of Atomic Layer Deposited MoO ₃ Thin Film for Nanoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 7521-7531.	2.4	34
21	Identification of Abnormal Stem Cells Using Raman Spectroscopy. <i>Stem Cells and Development</i> , 2012, 21, 2152-2159.	1.1	29
22	Nonlinear Exciton-Mie Coupling in Transition Metal Dichalcogenide Nanoresonators. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	29
23	Optical properties of spherical gold mesoparticles. <i>Applied Physics B: Lasers and Optics</i> , 2012, 106, 841-848.	1.1	28
24	White Light Generation and Anisotropic Damage in Gold Films near Percolation Threshold. <i>ACS Photonics</i> , 2017, 4, 1207-1215.	3.2	28
25	Extraordinary optical transmission with tapered slits: effect of higher diffraction and slit resonance orders. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 130.	0.9	27
26	Surface-enhanced Raman imaging of fractal shaped periodic metal nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2370.	0.9	26
27	Surface enhanced Raman microscopy with metal nanoparticle arrays. <i>Journal of Optics</i> , 2009, 11, 075004.	1.5	26
28	Optical Constants of Chemical Vapor Deposited Graphene for Photonic Applications. <i>Nanomaterials</i> , 2021, 11, 1230.	1.9	26
29	Two-photon mapping of localized field enhancements in thin nanostrip antennas. <i>Optics Express</i> , 2008, 16, 17302.	1.7	25
30	High resolution imaging of few-layer graphene. <i>Journal of Applied Physics</i> , 2012, 111, 064305.	1.1	25
31	Tuning affinity and reversibility for O ₂ binding in dinuclear Co(<i>II</i>) complexes. <i>Dalton Transactions</i> , 2013, 42, 9921-9929.	1.6	25
32	Fractal Shaped Periodic Metal Nanostructures Atop Dielectric-Metal Substrates for SERS Applications. <i>ACS Photonics</i> , 2020, 7, 1708-1715.	3.2	25
33	Engineering Nanoparticles with Pure High-Order Multipole Scattering. <i>ACS Photonics</i> , 2020, 7, 1067-1075.	3.2	23
34	Microextrusion printing of gas-sensitive planar anisotropic NiO nanostructures and their surface modification in an H ₂ S atmosphere. <i>Applied Surface Science</i> , 2022, 578, 151984.	3.1	23
35	Peculiarities of studying an isolated neuron by the method of laser interference microscopy. <i>Quantum Electronics</i> , 2006, 36, 874-878.	0.3	21
36	Gold Spiky Nanodumbbells: Anisotropy in Gold Nanostars. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 77-80.	1.2	20

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37	Gas-Aggregated Copper Nanoparticles with Long-term Plasmon Resonance Stability. <i>Plasmonics</i> , 2021, 16, 333-340.	1.8	19
38	Surface-Enhanced Raman Spectroscopy on Hybrid Graphene/Gold Substrates near the Percolation Threshold. <i>Nanomaterials</i> , 2020, 10, 164.	1.9	17
39	Optical Constants and Structural Properties of Epitaxial MoS ₂ Monolayers. <i>Nanomaterials</i> , 2021, 11, 1411.	1.9	17
40	Thickness-Dependent Structural and Electrical Properties of WS ₂ Nanosheets Obtained via the ALD-Grown WO ₃ Sulfurization Technique as a Channel Material for Field-Effect Transistors. <i>ACS Omega</i> , 2021, 6, 34429-34437.	1.6	16
41	Localized field enhancements in two-dimensional V-groove metal arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 372.	0.9	14
42	Enhancement of two-photon photoluminescence and SERS for low-coverage gold films. <i>Optics Express</i> , 2016, 24, 16743.	1.7	14
43	Band Alignment in As-Transferred and Annealed Graphene/MoS ₂ Heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 1900406.	1.2	14
44	Broadband Optical Properties of Atomically Thin PtS ₂ and PtSe ₂ . <i>Nanomaterials</i> , 2021, 11, 3269.	1.9	13
45	Optical reconfiguration and polarization control in semi-continuous gold films close to the percolation threshold. <i>Nanoscale</i> , 2017, 9, 12014-12024.	2.8	11
46	Broadband Optical Constants and Nonlinear Properties of SnS ₂ and SnSe ₂ . <i>Nanomaterials</i> , 2022, 12, 141.	1.9	11
47	Pulsed Laser Deposition of Nanostructured MoS ₃ /np-Mo//WO ₃ Hybrid Catalyst for Enhanced (Photo) Electrochemical Hydrogen Evolution. <i>Nanomaterials</i> , 2019, 9, 1395.	1.9	10
48	Application of Pulsed Laser Deposition in the Preparation of a Promising MoS _x /WSe ₂ /C(θ) Photocathode for Photo-Assisted Electrochemical Hydrogen Evolution. <i>Nanomaterials</i> , 2021, 11, 1461.	1.9	10
49	Detection of Hypertension-Induced Changes in Erythrocytes by SERS Nanosensors. <i>Biosensors</i> , 2022, 12, 32.	2.3	10
50	Polarization-resolved two-photon luminescence microscopy of V-groove arrays. <i>Optics Express</i> , 2012, 20, 654.	1.7	9
51	Tuning surface plasmons in interconnected hemispherical Au shells. <i>Optics Express</i> , 2012, 20, 534.	1.7	8
52	Hybrid Metal-Dielectric-Metal Sandwiches for SERS Applications. <i>Nanomaterials</i> , 2021, 11, 3205.	1.9	8
53	Halloysite Nanotubes with Immobilized Plasmonic Nanoparticles for Biophotonic Applications. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4565.	1.3	7
54	Peculiarities and evolution of Raman spectra of multilayer Ge/Si(001) heterostructures containing arrays of low-temperature MBE-grown Ge quantum dots of different size and number density: Experimental studies and numerical simulations. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 853-862.	1.2	7

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55	Surface-enhanced Raman microscopy of hemispherical shells stripped from templates of anodized aluminum. <i>Journal of Raman Spectroscopy</i> , 2012, 43, 834-341.	1.2	6
56	Study of Regular Intracellular and Membrane Processes in Neurons by Laser Interference Microscopy. <i>Bulletin of Experimental Biology and Medicine</i> , 2005, 140, 262-264.	0.3	5
57	Influence of weakened constant magnetic field on nerve cell excitability. <i>Biophysics (Russian)</i> 1 0.784314, 0.2 / Overlock 10	0.2	5
58	Highly stable silver nanoparticles for SERS applications. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012098.	0.3	5
59	Comparison of CVD-grown and exfoliated graphene for biosensing applications. <i>AIP Conference Proceedings</i> , 2021, , .	0.3	5
60	Features of Sliding Friction on Thin-Film MoS ₂ /C Coatings Prepared by Pulsed Laser Deposition. <i>Journal of Friction and Wear</i> , 2020, 41, 18-24.	0.1	4
61	The formation of intermediate layers in covered Ge/Si heterostructures with low-temperature quantum dots: a study using high-resolution transmission electron microscopy and Raman spectroscopy. <i>Semiconductor Science and Technology</i> , 2020, 35, 045012.	1.0	4
62	Two-photon imaging of field enhancement by groups of gold nanostrip antennas. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2199.	0.9	3
63	Long-Term Stable Structures Formed by Ion-Beam Modification of Silver Film for SERS Applications. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012099.	0.3	3
64	Characterization of localized field enhancements in laser fabricated gold needle nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 185.	0.9	2
65	Two-Dimensional and Screw Growth of MoS ₂ Films in the Process of Chemical Deposition from the Gas Phase. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 596-601.	0.1	2
66	Plasmonic properties of nanostructured graphene with silver nanoparticles. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012119.	0.3	2
67	Surface Physicochemical Treatment of Nickel Foam for Increasing Its Electrocatalytic Activity in Overall Water Splitting. <i>Inorganic Materials: Applied Research</i> , 2020, 11, 458-466.	0.1	2
68	UV/Ozone Treatment and Open-Air Copper Plasmonics. <i>Journal of Physics: Conference Series</i> , 2021, 2015, 012148.	0.3	2
69	Raman microscopy of individual living human embryonic stem cells. , 2010, , .		1
70	Using dynamic phase microscopy for studies of the neuron cytoplasm. <i>Moscow University Biological Sciences Bulletin</i> , 2014, 69, 163-168.	0.1	1
71	The Effect of MoS _x Nanocoatings on the Water Electrolysis Performance Using a Nickel-Foam-Based Bifunctional Catalyst. <i>Physics of Atomic Nuclei</i> , 2019, 82, 1332-1336.	0.1	1
72	Optical resonances and nanofocusing in triangular metal nano-grooves. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0

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73	Optical magnetic response of laser fabricated Si nanoparticles. , 2013, , .		0
74	Numerical simulations of nanostructured gold films. , 2017, , .		0
75	Ultra-thin gold films: towards 2D metals for photonic and optoelectronic applications. Journal of Physics: Conference Series, 2020, 1461, 012184.	0.3	0
76	Excitonic nature of dispersion of two-dimensional transition metal dichalcogenides and effect of annealing on excitons. Journal of Physics: Conference Series, 2020, 1461, 012036.	0.3	0
77	Surface-enhanced raman spectroscopy on ultrathin gold/graphene substrates near the percolation threshold. AIP Conference Proceedings, 2021, , .	0.3	0
78	Plasmonic black gold and black metals. , 2012, , .		0
79	Cellular SERS structures for non-invasive study of living cells. Journal of Physics: Conference Series, 2021, 2015, 012036.	0.3	0