

Mikhail V Erementchouk

List of Publications by Year in descending order

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34
papers

524
citations

840776

11
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642732

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all docs

34
docs citations

34
times ranked

1103
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning the electrical property <i>via</i> defect engineering of single layer MoS ₂ by oxygen plasma. <i>Nanoscale</i> , 2014, 6, 10033-10039.	5.6	202
2	Electronic and optical properties of vacancy defects in single-layer transition metal dichalcogenides. <i>Physical Review B</i> , 2017, 95, .	3.2	53
3	Direct-current generation due to wave mixing in semiconductors. <i>Europhysics Letters</i> , 1999, 47, 595-600.	2.0	38
4	Spoof Plasmon Interconnects – Communications Beyond RC Limit. <i>IEEE Transactions on Communications</i> , 2019, 67, 599-610.	7.8	29
5	Electrodynamics of spoof plasmons in periodically corrugated waveguides. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160616.	2.1	24
6	Spoof Surface Plasmon Polariton Beam Splitter. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 832-839.	3.1	24
7	Correlated electrical breakdown in arrays of high density aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2011, 98, 243121.	3.3	20
8	Optical signatures of states bound to vacancy defects in monolayer MoS ₂ . <i>Physical Review B</i> , 2015, 92, .	3.2	17
9	Spoof surface plasmon resonant tunneling mode with high quality and Purcell factors. <i>Physical Review B</i> , 2017, 95, .	3.2	11
10	Many-body interaction in semiconductors probed with two-dimensional Fourier spectroscopy. <i>Physical Review B</i> , 2007, 76, .	3.2	11
11	Photoluminescence spectroscopy of one-dimensional resonant photonic crystals. <i>Journal of Luminescence</i> , 2007, 125, 112-117.	3.1	11
12	Scaling properties of 1D Anderson model with correlated diagonal disorder. <i>Physica B: Condensed Matter</i> , 2003, 338, 79-81.	2.7	8
13	Coherent coupling between exciton resonances governed by the disorder potential. <i>Physical Review B</i> , 2013, 88, .	3.2	8
14	Dirac electrons in the presence of a matrix potential barrier: application to graphene and topological insulators. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 115501.	1.8	7
15	Towards developing a compact model for magnetization switching in straintronics magnetic random access memory devices. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	6
16	Weyl fermions in cylindrical wires. <i>Physical Review B</i> , 2018, 97, .	3.2	6
17	Spectral engineering with defect multiple-quantum-well structures. <i>Applied Physics Letters</i> , 2003, 83, 4562-4564.	3.3	5
18	Radiative energy transfer in disordered photonic crystals. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 175401.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Entanglement of photons due to nonlinear optical response of quantum wells. <i>Physical Review B</i> , 2010, 81, .	3.2	5
20	Statistics of irreversible displacements of domain walls in nanowires. <i>European Physical Journal B</i> , 2011, 83, 83-91.	1.5	4
21	On computational capabilities of Ising machines based on nonlinear oscillators. <i>Physica D: Nonlinear Phenomena</i> , 2022, , 133334.	2.8	4
22	One-dimensional photonic crystals based on periodic multiple quantum well structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 805-808.	0.8	3
23	Nonperturbative phenomena in semiconductor four-wave mixing spectra. <i>Physical Review B</i> , 2009, 79, .	3.2	3
24	Non-local coherent coupling between excitons in a disordered quantum well. <i>New Journal of Physics</i> , 2013, 15, 075026.	2.9	3
25	Complex dynamics of photon entanglement in the two-mode Jaynes-Cummings model. <i>Nanotechnology</i> , 2010, 21, 274019.	2.6	2
26	2d Fourier spectroscopy of disordered quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1141-1144.	0.8	2
27	Helicity-dependent scattering in layered Weyl semimetals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2866-2871.	2.1	2
28	Continuous-variable quantum key distribution with discretized modulations in the strong noise regime. <i>Physical Review A</i> , 2020, 101, .	2.5	2
29	Rabi oscillations in semiconductor multiwave mixing response. <i>Physical Review B</i> , 2008, 78, .	3.2	1
30	Entanglement Dynamics of Second Quantized Quantum Fields. <i>ISRN Mathematical Analysis</i> , 2014, 2014, 1-19.	0.4	1
31	Exciton luminescence in MQW based photonic crystals. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005, 2, 3903-3907.	0.8	0
32	Emission spectroscopy of ZnO inverse opal photonic crystals. , 2007, , .		0
33	Probing many-body interactions in a disordered semiconductor quantum well with electronic two-dimensional Fourier transform spectroscopy. <i>Proceedings of SPIE</i> , 2010, , .	0.8	0
34	Deterministic generation of many-photon GHZ states using quantum dots in a cavity. , 2014, , .		0