Igor Bondarev

List of Publications by Year
in descending order

33 papers	514 citations	623734 14 h-index	677142 22 g-index
33 all docs	33 docs citations	33 times ranked	378 citing authors

#	Article	IF	Citations
1	Thickness-Dependent Drude Plasma Frequency in Transdimensional Plasmonic TiN. Nano Letters, 2022, 22, 4622-4629.	9.1	17
2	Controlled excitonâ€“plasmon coupling in a mixture of ultrathin periodically aligned single-wall carbon nanotube arrays. Journal of Applied Physics, 2021, 129, .	2.5	8
3	Collective Excitations and Optical Response of Ultrathin Carbon-Nanotube Films. Physical Review Applied, 2021, 15, .	3.8	11
4	Crystal phases of charged interlayer excitons in van der Waals heterostructures. Communications Physics, 2021, 4, .	5.3	7
5	Charged Bosons Made of Fermions in Bilayer Structures with Strong Metallic Screening. Nano Letters, 2021, 21, 7669-7675.	9.1	10
6	Optical Response of Ultrathin Periodically Aligned Single-Wall Carbon Nanotube Films. MRS Advances, 2020, 5, 2685-2691.	0.9	2
7	Transdimensional epsilon-near-zero modes in planar plasmonic nanostructures. Physical Review Research, 2020, 2, .	3.6	17
8	Finite-thickness effects in plasmonic films with periodic cylindrical anisotropy [Invited]. Optical Materials Express, 2019, 9, 285.	3.0	14
9	Cryogenic characterization of titanium nitride thin films. Optical Materials Express, 2019, 9, 2117.	3.0	20
10	Complexes of dipolar excitons in layered quasi-two-dimensional nanostructures. Physical Review B, 2018, 97, .	3.2	17
11	Optical response of finite-thickness ultrathin plasmonic films. MRS Communications, 2018, 8, 1092-1097.	1.8	13
12	Quantum electrodynamics of optical metasurfaces. , 2018, , .		1
13	Monitoring Charge Separation Processes in Quasi-One-Dimensional Organic Crystalline Structures. Nano Letters, 2017, 17, 6056-6061.	9.1	5
14	Exciton Bose-Einstein Condensation in Double Walled Carbon Nanotubes. MRS Advances, 2017, 2, 2401-2406.	0.9	3
15	Universal features of the optical properties of ultrathin plasmonic films. Optical Materials Express, 2017, 7, 3731.	3.0	35
16	Lowest energy Frenkel and charge transfer exciton intermixing in one-dimensional copper phthalocyanine molecular lattice. Applied Physics Letters, 2016, 109, 213302.	3.3	16
17	Configuration space method for calculating binding energies of exciton complexes in quasi-1D/2D semiconductors. Modern Physics Letters B, 2016, 30, 1630006.	1.9	9
18	One-dimensional transport in hybrid metal-semiconductor nanotube systems. Physical Review B, 2016, 93, .	3.2	8

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19	Charge-Induced Fluctuation Forces in Graphitic Nanostructures. Physical Review X, 2016, 6, .	8.9	7
20	Plasmon enhanced Raman scattering effect for an atom near a carbon nanotube. Optics Express, 2015, 23, 3971.	3.4	9
21	Possibility for exciton Bose-Einstein condensation in carbon nanotubes. Physical Review B, 2014, 89, .	3.2	14
22	Optically promoted bipartite atomic entanglement in hybrid metallic carbon nanotube systems. Journal of Chemical Physics, 2014, 140, 064301.	3.0	6
23	Relative stability of excitonic complexes in quasi-one-dimensional semiconductors. Physical Review B, 2014, 90, .	3.2	16
24	Photophysics of carbon nanotubes and nanotube composites. Chemical Physics, 2013, 413, 1-2.	1.9	11
25	Single-wall carbon nanotubes as coherent plasmon generators. Physical Review B, 2012, 85, .	3.2	27
26	Surface plasmon amplification under controlled excitonâ€plasmon coupling in individual carbon nanotubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1259-1264.	0.8	8
27	Asymptotic exchange coupling of quasi-one-dimensional excitons in carbon nanotubes. Physical Review B, 2011, 83, .	3.2	27
28	Surface Electromagnetic Phenomena in Pristine and Atomically Doped Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1673-1687.	0.4	15
29	Surface exciton-plasmons and optical response of small-diameter carbon nanotubes. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2010, 108, 376-384.	0.6	2
30	Strong exciton-plasmon coupling in semiconducting carbon nanotubes. Physical Review B, 2009, 80, .	3.2	51
31	Optical absorption by atomically doped carbon nanotubes. Physical Review B, 2006, 74, .	3.2	17
32	van der Waals coupling in atomically doped carbon nanotubes. Physical Review B, 2005, 72, .	3.2	48
33	Spontaneous-decay dynamics in atomically doped carbon nanotubes. Physical Review B, 2004, 70, .	3.2	43