

Oleg Kibis

List of Publications by Year in descending order

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100
papers

1,985
citations

257101

24
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264894

42
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102
all docs

102
docs citations

102
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	All-optical control of excitons in semiconductor quantum wells. Journal of Physics Condensed Matter, 2022, 34, 205301.	0.7	0
2	Floquet theory of spin dynamics under circularly polarized light pulses. Physical Review A, 2022, 105, .	1.0	8
3	Floquet engineering of excitons in semiconductor quantum dots. Physical Review B, 2022, 105, .	1.1	10
4	Optically induced persistent current in carbon nanotubes. Physical Review B, 2021, 103, .	1.1	7
5	Optically induced Kondo effect in semiconductor quantum wells. Journal of Physics Condensed Matter, 2021, 33, 495302.	0.7	5
6	Optically induced hybrid Bose-Fermi system in quantum wells with different charge carriers. Optics Letters, 2021, 46, 5316.	1.7	8
7	Fano resonances in optical spectra of semiconductor quantum wells dressed by circularly polarized light. Optics Letters, 2021, 46, 50.	1.7	6
8	Light-induced electron pairing in two-dimensional systems. Journal of Physics: Conference Series, 2021, 2015, 012062.	0.3	0
9	Floquet engineering of carbon nanotubes. Journal of Physics: Conference Series, 2021, 2015, 012063.	0.3	1
10	Irradiation-induced Kondo resonance in two-dimensional electron systems. Journal of Physics: Conference Series, 2021, 2015, 012056.	0.3	0
11	Light-induced bound electron states in two-dimensional systems: Contribution to electron transport. Physical Review B, 2020, 102, .	1.1	13
12	Electron-photonic topological states on the surface of a bulk semiconductor driven by a high-frequency field. Journal of Physics: Conference Series, 2020, 1461, 012063.	0.3	0
13	Floquet engineering of 2D materials. Journal of Physics: Conference Series, 2020, 1461, 012064.	0.3	1
14	Fano resonances in quantum well absorption induced by electromagnetic dressing. AIP Conference Proceedings, 2020, , .	0.3	0
15	Floquet engineering of the Luttinger Hamiltonian. Physical Review B, 2020, 102, .	1.1	11
16	Floquet Engineering of Structures Based on Gapless Semiconductors. Semiconductors, 2020, 54, 1734-1736.	0.2	0
17	Optical Control of Electronic States in Three-Dimensional Topological Insulators. Journal of Structural Chemistry, 2020, 61, 668-671.	0.3	0
18	Structure of surface electronic states in strained mercury telluride. New Journal of Physics, 2019, 21, 043016.	1.2	7

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19	Electron pairing in nanostructures driven by an oscillating field. <i>Physical Review B</i> , 2019, 99, .	1.1	14
20	Optically induced topological states on the surface of mercury telluride. <i>Physical Review B</i> , 2019, 99, .	1.1	14
21	Topological Electronic States on the Surface of a Strained Gapless Semiconductor. <i>Semiconductors</i> , 2019, 53, 1867-1869.	0.2	1
22	On the possibility of a terahertz light emitting diode based on a dressed quantum well. <i>Scientific Reports</i> , 2019, 9, 16320.	1.6	4
23	Quantum ring with the Rashba spin-orbit interaction in the regime of strong light-matter coupling. <i>Physical Review B</i> , 2018, 97, .	1.1	28
24	Periodic array of quantum rings strongly coupled to circularly polarized light as a topological insulator. <i>Physical Review B</i> , 2018, 97, .	1.1	34
25	Semiconductor quantum well irradiated by a two-mode electromagnetic field as a terahertz emitter. <i>Physical Review A</i> , 2018, 97, .	1.0	5
26	Electronic properties of quantum rings dressed by a high-frequency electromagnetic field. <i>Journal of Physics: Conference Series</i> , 2018, 1092, 012055.	0.3	0
27	Quantum Rings Dressed by a High-Frequency Electromagnetic Field. <i>Semiconductors</i> , 2018, 52, 1806-1808.	0.2	0
28	Terahertz Optoelectronics of Quantum Rings and Nanohelices. <i>Semiconductors</i> , 2018, 52, 1813-1816.	0.2	2
29	Electromagnetic Dressing of Graphene. <i>Journal of Structural Chemistry</i> , 2018, 59, 867-869.	0.3	3
30	Floquet Engineering of Gapped 2D Materials. <i>Semiconductors</i> , 2018, 52, 523-525.	0.2	6
31	All-optical band engineering of gapped Dirac materials. <i>Physical Review B</i> , 2017, 95, .	1.1	79
32	Optically induced Lifshitz transition in bilayer graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	36
33	Resonance fluorescence from an asymmetric quantum dot dressed by a bichromatic electromagnetic field. <i>Physical Review A</i> , 2017, 95, .	1.0	31
34	Defect-related transitions in luminescence of InAlAs on InP. <i>Journal of Physics: Conference Series</i> , 2017, 864, 012075.	0.3	0
35	Floquet control of dipolaritons in quantum wells. <i>Optics Letters</i> , 2017, 42, 2398.	1.7	11
36	Control of electronic transport in graphene by electromagnetic dressing. <i>Scientific Reports</i> , 2016, 6, 20082.	1.6	75

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37	Optically tunable spin transport on the surface of a topological insulator. <i>New Journal of Physics</i> , 2016, 18, 103014.	1.2	18
38	Effect of a magnetic field on intersubband polaritons in a quantum well: strong to weak coupling conversion. <i>Optics Letters</i> , 2016, 41, 3595.	1.7	1
39	Magneto-electronic properties of graphene dressed by a high-frequency field. <i>Physical Review B</i> , 2016, 93, .	1.1	41
40	Optically controlled periodical chain of quantum rings. <i>Physical Review B</i> , 2016, 93, .	1.1	12
41	Datta-and-Das spin transistor controlled by a high-frequency electromagnetic field. <i>Physical Review B</i> , 2016, 93, .	1.1	18
42	Magnetic properties of a two-dimensional electron gas strongly coupled to light. <i>Physical Review B</i> , 2016, 93, .	1.1	34
43	Aharonov-Bohm effect for excitons in a semiconductor quantum ring dressed by circularly polarized light. <i>Physical Review B</i> , 2015, 91, .	1.1	22
44	Control of spin dynamics in a two-dimensional electron gas by electromagnetic dressing. <i>Physical Review B</i> , 2015, 92, .	1.1	37
45	Electronic transport in a two-dimensional electron gas strongly coupled to light. , 2015, , .		1
46	Terahertz Applications of Carbon Nanotubes and Graphene Nanoribbons. , 2015, , .		3
47	Multiphoton dynamics of qutrits in the ultrastrong coupling regime with a quantized photonic field. <i>Journal of Experimental and Theoretical Physics</i> , 2015, 121, 925-933.	0.2	1
48	Multiphoton interaction of a qutrit with single-mode quantized field in the ultrastrong and deep strong coupling regimes. <i>Journal of Nanophotonics</i> , 2015, 9, 093064.	0.4	1
49	Aharonov-Bohm effect induced by circularly polarized light. <i>Superlattices and Microstructures</i> , 2015, 87, 149-153.	1.4	1
50	Transport properties of a two-dimensional electron gas dressed by light. <i>Physical Review B</i> , 2015, 91, .	1.1	61
51	Optically induced Aharonov-Bohm effect in mesoscopic rings. <i>Physical Review B</i> , 2014, 90, .	1.1	21
52	Band gaps induced by vacuum photons in closed semiconductor cavities. <i>Physical Review A</i> , 2014, 90, .	1.0	2
53	Semiconductor cavity QED: Band gap induced by vacuum fluctuations. <i>Physical Review A</i> , 2014, 89, .	1.0	2
54	How to suppress the backscattering of conduction electrons?. <i>Europhysics Letters</i> , 2014, 107, 57003.	0.7	23

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55	Persistent current induced by vacuum fluctuations in a quantum ring. <i>Physical Review B</i> , 2013, 87, .	1.1	33
56	Persistent current induced by quantum light. <i>Physical Review B</i> , 2012, 86, .	1.1	18
57	Electronic properties of asymmetrical quantum dots dressed by laser field. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 914-917.	0.7	2
58	Graphene coupling to circularly polarized photons. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2012, 9, 1265-1268.	0.8	1
59	Asymmetric quantum dot in a microcavity as a nonlinear optical element. <i>Physical Review A</i> , 2012, 85, .	1.0	35
60	Dissipationless Electron Transport in Photon-Dressed Nanostructures. <i>Physical Review Letters</i> , 2011, 107, 106802.	2.9	69
61	Band gap in graphene induced by vacuum fluctuations. <i>Physical Review B</i> , 2011, 84, .	1.1	45
62	Mechanisms of terahertz emission from carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2010, 405, 3054-3056.	1.3	7
63	Light-matter coupling in nanostructures without an inversion center. <i>Superlattices and Microstructures</i> , 2010, 47, 216-218.	1.4	0
64	Metal-insulator transition in graphene induced by circularly polarized photons. <i>Physical Review B</i> , 2010, 81, .	1.1	179
65	Terahertz processes in carbon nanotubes. <i>Journal of Nanophotonics</i> , 2010, 4, 041665.	0.4	52
66	MAGNETICALLY CONTROLLED TERAHERTZ ABSORPTION AND EMISSION IN CARBON NANOTUBES. <i>International Journal of Modern Physics B</i> , 2009, 23, 2846-2850.	1.0	37
67	Carbon nanotubes as a basis for terahertz emitters and detectors. <i>Microelectronics Journal</i> , 2009, 40, 776-778.	1.1	56
68	Matter Coupling to Strong Electromagnetic Fields in Two-Level Quantum Systems with Broken Inversion Symmetry. <i>Physical Review Letters</i> , 2009, 102, 023601.	2.9	88
69	Superlattice properties of semiconductor nanohelices in a transverse electric field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1899-1901.	1.3	12
70	Carbon nanotubes as a basis for novel terahertz devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1766-1768.	1.3	8
71	Terahertz applications of carbon nanotubes. <i>Superlattices and Microstructures</i> , 2008, 43, 399-407.	1.4	99
72	Prospective Terahertz Applications of Carbon Nanotubes. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008, , 81-93.	0.2	0

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73	Carbon nanotubes as terahertz emitters and detectors. AIP Conference Proceedings, 2007, , .	0.3	0
74	Helical nanostructures and Aharonov-Bohm quantum rings in a transverse electric field. AIP Conference Proceedings, 2007, , .	0.3	3
75	Electrodynamics of chiral carbon nanotubes in the helical parametrization scheme. Journal of Nanophotonics, 2007, 1, 013505.	0.4	7
76	Generation of Terahertz Radiation by Hot Electrons in Carbon Nanotubes. Nano Letters, 2007, 7, 3414-3417.	4.5	100
77	Semiconductor nanohelix in electric field: A superlattice of the new type. Technical Physics Letters, 2007, 33, 878-880.	0.2	16
78	Terahertz emitters and detectors based on carbon nanotubes. , 2006, , .		12
79	Carbon Nanotubes: A New Type of Emitter in the Terahertz Range. Technical Physics Letters, 2005, 31, 671.	0.2	48
80	A new type of superlattice based on carbon nanotubes. AIP Conference Proceedings, 2005, , .	0.3	0
81	Superlattice Properties of Helical Nanostructures in a Transverse Electric Field. Electromagnetics, 2005, 25, 425-435.	0.3	42
82	Superlattice properties of carbon nanotubes in a transverse electric field. Physical Review B, 2005, 71, .	1.1	73
83	Superlattice behavior of carbon nanotubes in a transverse electric field. , 2004, , .		0
84	Electronic phenomena in chiral carbon nanotubes in the presence of a magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 741-744.	1.3	23
85	Electrical rectification by magnetic edge states. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 699-702.	1.3	24
86	Features of electron-phonon interaction in nanotubes with chiral symmetry placed in a magnetic field. Physics of the Solid State, 2001, 43, 2336-2343.	0.2	21
87	Thermomagnetic effect in a two-dimensional electron system with an asymmetric quantizing potential. Physical Review B, 2000, 61, 15603-15605.	1.1	16
88	Effect of the configuration of a quantum wire on the electron-phonon interaction. Semiconductors, 1999, 33, 1121-1123.	0.2	1
89	Novel effects of electron-phonon interaction in quasi-two-dimensional structures located in a magnetic field. Journal of Experimental and Theoretical Physics, 1999, 88, 527-532.	0.2	22
90	Elimination of the electron-phonon interaction in superlattices in a quantizing magnetic field. Semiconductors, 1998, 32, 657-658.	0.2	1

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91	New quantum electron transport phenomena in low-dimensional systems in a magnetic field. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 244, 432-436.	0.9	20
92	Asymmetry of elementary interactions in 2D systems in a magnetic field. Physica B: Condensed Matter, 1998, 256-258, 449-451.	1.3	5
93	Possible new quantum macroscopic effect in low-dimensional structures: The appearance of an electromotive force in a standing acoustic wave. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 237, 292-296.	0.9	19
94	New physical effects in MOS-structures. , 1998, , .		0
95	Anisotropic momentum transfer in low-dimensional electron systems in a magnetic field. JETP Letters, 1997, 66, 588-593.	0.4	18
96	Magnetocontrolled quantum states in helicoidal tubules. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 178, 335-337.	0.9	22
97	Electron-electron interaction in a spiral quantum wire. Physics Letters, Section A: General, Atomic and Solid State Physics, 1992, 166, 393-394.	0.9	23
98	Anisotropic interaction between electrons and piezoelectric phonons in semiconductor heterojunctions in magnetic field. , 0, , .		0
99	Anisotropic electron-phonon interaction in silicon inversion layers in magnetic field. , 0, , .		0
100	Photovoltaic effect in chiral carbon nanotubes in presence of a magnetic field. , 0, , .		0