

Torsten Meier

List of Publications by Year in descending order

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256
papers

6,781
citations

81743

39
h-index

71532

76
g-index

265
all docs

265
docs citations

265
times ranked

4126
citing authors

#	ARTICLE	IF	CITATIONS
1	Sub-cycle control of terahertz high-harmonic generation by dynamical Bloch oscillations. Nature Photonics, 2014, 8, 119-123.	15.6	808
2	Optical investigation of Bloch oscillations in a semiconductor superlattice. Physical Review B, 1992, 46, 7252-7255.	1.1	521
3	Exciton-migration and three-pulse femtosecond optical spectroscopies of photosynthetic antenna complexes. Journal of Chemical Physics, 1998, 108, 7763-7774.	1.2	380
4	High harmonics generated in semiconductor nanostructures by the coupled dynamics of optical inter- and intraband excitations. Physical Review B, 2008, 77, .	1.1	285
5	Polarons, localization, and excitonic coherence in superradiance of biological antenna complexes. Journal of Chemical Physics, 1997, 107, 3876-3893.	1.2	190
6	Multiple Exciton Coherence Sizes in Photosynthetic Antenna Complexes viewed by Pump-Probe Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 7332-7342.	1.2	188
7	Coulomb Memory Signatures in the Excitonic Optical Stark Effect. Physical Review Letters, 1999, 82, 3112-3115.	2.9	182
8	Collective Effects in Second-Harmonic Generation from Split-Ring-Resonator Arrays. Physical Review Letters, 2012, 109, 015502.	2.9	160
9	Evidence of biexcitonic contributions to four-wave mixing in GaAs quantum wells. Physical Review B, 1994, 50, 14730-14733.	1.1	145
10	Coherent Electric-Field Effects in Semiconductors. Physical Review Letters, 1994, 73, 902-905.	2.9	142
11	Time-Resolved Investigation of Coherently Controlled Electric Currents at a Metal Surface. Science, 2007, 318, 1287-1291.	6.0	131
12	Polarization-dependent optical 2D Fourier transform spectroscopy of semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14227-14232.	3.3	110
13	Disorder mediated biexcitonic beats in semiconductor quantum wells. Physical Review B, 1996, 54, 4436-4439.	1.1	107
14	Femtosecond photon echoes in molecular aggregates. Journal of Chemical Physics, 1997, 107, 8759-8780.	1.2	101
15	Dynamic Localization in Anisotropic Coulomb Systems: Field Induced Crossover of the Exciton Dimension. Physical Review Letters, 1995, 75, 2558-2561.	2.9	97
16	Coherent dynamics of excitonic wave packets. Physical Review Letters, 1993, 70, 3027-3030.	2.9	88
17	Quantum theory of phonon-assisted exciton formation and luminescence in semiconductor quantum wells. Physical Review B, 2000, 62, 2706-2720.	1.1	75
18	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. Journal of Physical Chemistry B, 1999, 103, 3954-3962.	1.2	74

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19	Soliton Gyroscopes in Media with Spatially Growing Repulsive Nonlinearity. <i>Physical Review Letters</i> , 2014, 112, 020404.	2.9	72
20	Coherent control of a single exciton qubit by optoelectronic manipulation. <i>Nature Photonics</i> , 2010, 4, 545-548.	15.6	66
21	Nonlinear integrated quantum electro-optic circuits. <i>Science Advances</i> , 2019, 5, eaat1451.	4.7	65
22	Polarization dependence of beating phenomena at the energetically lowest exciton transition in GaAs quantum wells. <i>Physical Review B</i> , 1995, 51, 10909-10914.	1.1	59
23	Subpicosecond photon-echo spectroscopy on GaAs/AlAs short-period superlattices. <i>Physical Review B</i> , 1993, 47, 1532-1539.	1.1	56
24	Coherent effects induced by static and time-dependent electric fields in semiconductors. <i>Physical Review B</i> , 1995, 51, 14490-14497.	1.1	55
25	Microscopic theory of the extremely nonlinear terahertz response of semiconductors. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 863-866.	0.7	55
26	Coupled Airy breathers. <i>Optics Letters</i> , 2014, 39, 5523.	1.7	55
27	Toolbox for the design of LiNbO ₃ -based passive and active integrated quantum circuits. <i>New Journal of Physics</i> , 2017, 19, 123009.	1.2	53
28	Microscopic Analysis of the Coherent Optical Generation and the Decay of Charge and Spin Currents in Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2005, 95, 086606.	2.9	52
29	Ultrafast carrier relaxation and vertical-transport phenomena in semiconductor superlattices: A Monte Carlo analysis. <i>Physical Review B</i> , 1995, 51, 16943-16953.	1.1	49
30	Realization of all-optical vortex switching in exciton-polariton condensates. <i>Nature Communications</i> , 2020, 11, 897.	5.8	49
31	Simultaneous influence of disorder and Coulomb interaction on photon echoes in semiconductors. <i>Physical Review B</i> , 1994, 50, 8114-8117.	1.1	47
32	Three-dimensional hybrid vortex solitons. <i>New Journal of Physics</i> , 2014, 16, 063035.	1.2	47
33	Observation and Uses of Position-Space Bloch Oscillations in an Ultracold Gas. <i>Physical Review Letters</i> , 2018, 120, 213201.	2.9	47
34	Microscopic analysis of extreme nonlinear optics in semiconductor nanostructures. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 2559.	0.9	46
35	Signatures of correlations in intensity-dependent excitonic absorption changes. <i>Physical Review B</i> , 2000, 62, 4218-4221.	1.1	45
36	Spectral signatures of $\ddot{\Gamma}^{\dagger(5)}$ processes in four-wave mixing of homogeneously broadened excitons. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1318.	0.9	44

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37	Influence of scattering on the formation of Wannier-Stark ladders and Bloch oscillations in semiconductor superlattices. <i>Physical Review B</i> , 1994, 49, 14058-14061.	1.1	43
38	Influence of carrier correlations on the excitonic optical response including disorder and microcavity effects. <i>European Physical Journal B</i> , 1999, 11, 407.	0.6	43
39	Coherent Excitation Spectroscopy on Inhomogeneous Exciton Ensembles. <i>Physical Review Letters</i> , 1999, 83, 2073-2076.	2.9	40
40	Signatures of transient Wannier-Stark localization in bulk gallium arsenide. <i>Nature Communications</i> , 2018, 9, 2890.	5.8	40
41	Dissipative dynamics of an electronic wavepacket in a semiconductor double well potential. <i>IEEE Journal of Quantum Electronics</i> , 1992, 28, 2498-2507.	1.0	39
42	Disorder-induced dephasing in semiconductors. <i>Physical Review B</i> , 2000, 61, 13088-13098.	1.1	38
43	Simulation of threeâ€‘pulseâ€‘echo and fluorescence depolarization in photosynthetic aggregates. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998, 356, 405-419.	1.6	37
44	Scaling of Fluorescence Stokes Shift and Superradiance Coherence Size in Disordered Molecular Aggregates. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10294-10299.	1.1	37
45	Dipole-dipole coupling of excitons in double quantum wells. <i>Physical Review B</i> , 1993, 48, 11817-11826.	1.1	36
46	Influence of carrier correlations on the excitonic optical response including disorder and microcavity effects. <i>European Physical Journal B</i> , 1999, 11, 407-421.	0.6	35
47	Five-Wave-Mixing Spectroscopy of Ultrafast Electron Dynamics at a Si(001) Surface. <i>Physical Review Letters</i> , 2004, 92, 127405.	2.9	34
48	Coherent Control of Absorption and Polarization Decay in a GaAs Quantum Well: Time and Spectral Domain Studies. <i>Physical Review Letters</i> , 2000, 84, 3474-3477.	2.9	33
49	Nonequilibrium gain in optically pumped GaInNAs laser structures. <i>Applied Physics Letters</i> , 2004, 85, 5526-5528.	1.5	33
50	Theory of coherent effects in semiconductors. <i>Journal of Luminescence</i> , 1999, 83-84, 1-6.	1.5	32
51	Enhanced high-order harmonic generation in semiconductors by excitation with multicolor pulses. <i>Physical Review A</i> , 2020, 101, .	1.0	32
52	Signatures of many-particle correlations in two-dimensional Fourier-transform spectra of semiconductor nanostructures. <i>Solid State Communications</i> , 2007, 142, 154-158.	0.9	31
53	Attosecond temporal confinement of interband excitation by intraband motion. <i>Optics Express</i> , 2019, 27, 2225.	1.7	31
54	Influence of light holes on the heavy-hole excitonic optical Stark effect. <i>Physical Review B</i> , 2001, 64, .	1.1	30

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55	Dephasing of interacting heavy-hole and light-hole excitons in GaAs quantum wells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1996, 13, 1026.	0.9	29
56	Microscopic theory of the intracollisional field effect in semiconductor superlattices. <i>Physical Review B</i> , 1997, 55, 13799-13807.	1.1	29
57	Excitons versus unbound electron-hole pairs and their influence on exciton bleaching: A model study. <i>Physical Review B</i> , 1999, 59, 13202-13208.	1.1	29
58	Femtosecond Spectroscopic Signatures of Electronic Correlations in Conjugated Polyenes and Semiconductor Nanostructures. <i>Physical Review Letters</i> , 1996, 77, 3471-3474.	2.9	28
59	Effective Frenkel Hamiltonian for optical nonlinearities in semiconductors: Application to magnetoexcitons. <i>Physical Review B</i> , 1998, 58, 4496-4516.	1.1	28
60	Interacting electrons in a one-dimensional random array of scatterers: A quantum dynamics and Monte Carlo study. <i>Physical Review B</i> , 2002, 65, .	1.1	26
61	Determination of homogeneous and inhomogeneous broadening in semiconductor nanostructures by two-dimensional Fourier-transform optical spectroscopy. <i>Physical Review B</i> , 2007, 76, .	1.1	26
62	Microscopic analysis of charge and spin photocurrents injected by circularly polarized one-color laser pulses in GaAs quantum wells. <i>Physical Review B</i> , 2010, 82, .	1.1	26
63	Multipoles and vortex multiplets in multidimensional media with inhomogeneous defocusing nonlinearity. <i>New Journal of Physics</i> , 2015, 17, 083043.	1.2	26
64	Nonlinear dynamics of Airy-vortex 3D wave packets: emission of vortex light waves. <i>Optics Letters</i> , 2014, 39, 5539.	1.7	25
65	Strong coupling of heavy- and light-hole excitons induced by many-body correlations. <i>Physical Review B</i> , 2000, 62, 12605-12608.	1.1	24
66	Temporal decay of coherently optically injected charge and spin currents due to carrier-LO-phonon and carrier-carrier scattering. <i>Physical Review B</i> , 2006, 74, .	1.1	24
67	Microscopic theory of optical dephasing in semiconductors. <i>Applied Physics A: Materials Science and Processing</i> , 2000, 71, 511-517.	1.1	23
68	Signatures of Fano resonances in four-wave-mixing experiments. <i>Physical Review B</i> , 1995, 51, 13977-13986.	1.1	22
69	Femtosecond Four-Wave Mixing Experiments on GaAs Quantum Wells Using Two Independently Tunable Lasers. <i>Physical Review Letters</i> , 1998, 80, 4803-4806.	2.9	22
70	Time-Resolved Four-Wave Mixing in GaAs/AlAs Quantum Well Structures. <i>Physica Status Solidi (B): Basic Research</i> , 1992, 173, 21-30.	0.7	21
71	Time-resolved photoluminescence of type-I and type-II(GaIn)As/Ga(NAs)heterostructures. <i>Physical Review B</i> , 2005, 71, .	1.1	21
72	Reversal of Coherently Controlled Ultrafast Photocurrents by Band Mixing in Undoped GaAs Quantum Wells. <i>Physical Review Letters</i> , 2010, 104, 217401.	2.9	21

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73	Theory of filtered type-II parametric down-conversion in the continuous-variable domain: Quantifying the impacts of filtering. <i>Physical Review A</i> , 2014, 90, .	1.0	21
74	Correlation effects in the excitonic optical properties of semiconductors. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001, 3, R29-R45.	1.4	20
75	Neighboring Atom Collisions in Solid-State High Harmonic Generation. <i>Ultrafast Science</i> , 2021, 2021, .	5.8	20
76	Polarization selection rules for quantum beating between light- and heavy-hole excitons in GaAs quantum wells. <i>Solid State Communications</i> , 1995, 94, 373-377.	0.9	19
77	Exciton ionization induced by an electric field in a strongly coupled GaAs/Al _x Ga _{1-x} As superlattice. <i>Physical Review B</i> , 1996, 53, 13688-13693.	1.1	19
78	Coupled absorber-cavity system: Observation of a characteristic nonlinear response. <i>Physical Review B</i> , 1998, 57, R2049-R2052.	1.1	19
79	Damping of Rabi oscillations in intensity-dependent photon echoes from exciton complexes in a CdTe/(Cd,Mg)Te single quantum well. <i>Physical Review B</i> , 2017, 96, .	1.1	19
80	Regeneration of Airy pulses in fiber-optic links with dispersion management of the two leading dispersion terms of opposite signs. <i>Physical Review A</i> , 2014, 89, .	1.0	18
81	Microscopic analysis of high harmonic generation in semiconductors with degenerate bands. <i>Physical Review B</i> , 2021, 103, .	1.1	18
82	Electronic-oscillator analysis of femtosecond four-wave mixing in conjugated polyenes. <i>Physical Review B</i> , 1997, 55, 4960-4977.	1.1	17
83	Density-matrix electronic-oscillator representation of optical spectroscopy of semiconductor nanocrystals. <i>Journal of Chemical Physics</i> , 1997, 106, 3837-3853.	1.2	16
84	Electron-factor anisotropy in symmetric (110)-oriented GaAs quantum wells. <i>Physical Review B</i> , 2011, 84, .	1.1	16
85	Theory of quasiequilibrium nonlinear optical absorption in semiconductor superlattices. <i>Applied Physics Letters</i> , 1995, 67, 2978-2980.	1.5	15
86	Type I-type II transition in InGaAs/GaNAs heterostructures. <i>Applied Physics Letters</i> , 2005, 86, 081903.	1.5	15
87	Coulomb Correlations and Biexciton Signatures in Coherent Excitation Spectroscopy of Semiconductor Quantum Wells. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 424-434.	0.7	14
88	Theory of the optical properties of semiconductor nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 14, 45-52.	1.3	14
89	Linear and nonlinear optical properties of semiconductor nanorings with magnetic field and disorder - Influence on excitons and biexcitons. <i>European Physical Journal B</i> , 2001, 22, 249-256.	0.6	13
90	Microscopic analysis of high harmonic generation in semiconductor nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 420-423.	0.8	13

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91	Shaping the spatiotemporal dynamics of the electron density in a hybrid metal-semiconductor nanostructure. <i>Optics Letters</i> , 2009, 34, 2900.	1.7	13
92	Excitation induced shift and broadening of the exciton resonance. <i>Physica B: Condensed Matter</i> , 2002, 314, 309-313.	1.3	12
93	Gain and carrier losses of (GaIn)(NAs) heterostructures in the 1300-1550 nm range. <i>Applied Physics Letters</i> , 2005, 87, 261109.	1.5	12
94	Two-dimensional symbiotic solitons and vortices in binary condensates with attractive cross-species interaction. <i>Scientific Reports</i> , 2016, 6, 34847.	1.6	12
95	Higher-order contributions and nonperturbative effects in the nondegenerate nonlinear optical absorption of semiconductors using a two-band model. <i>Physical Review B</i> , 2019, 99, .	1.1	12
96	Field-dependent absorption in superlattices: Comparison of theory and experiment. <i>Applied Physics Letters</i> , 1998, 73, 2612-2614.	1.5	11
97	From Exciton Resonance to Frequency Mixing in GaAs Multiple Quantum Wells. <i>Physical Review Letters</i> , 1999, 82, 3879-3882.	2.9	11
98	Coherent dynamics of photoexcited semiconductor superlattices in homogeneous electric fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 267-273.	1.3	11
99	Coherent dynamics of magnetoexcitons in semiconductor nanorings. <i>European Physical Journal B</i> , 2001, 19, 599-606.	0.6	11
100	Rabi flopping of charge and spin currents generated by ultrafast two-colour photoexcitation of semiconductor quantum wells. <i>Solid State Communications</i> , 2008, 145, 61-65.	0.9	11
101	Tuning quantum-dot based photonic devices with liquid crystals. <i>Optics Express</i> , 2010, 18, 7946.	1.7	11
102	Femtosecond quantum interference control of electrical currents in GaAs: Signatures beyond the perturbative regime. $I_{\text{ph}} \propto \frac{1}{\Gamma} \left(\frac{\Gamma}{\Gamma + \Delta} \right)^2$ <i>Physical Review B</i> , 2013, 88, .	1.1	11
103	Towards integrated superconducting detectors on lithium niobate waveguides. , 2017, , .		11
104	Modeling excitonic line shapes in weakly disordered semiconductor nanostructures. <i>Physical Review B</i> , 2010, 81, .	1.1	10
105	Creation of vortices by torque in multidimensional media with inhomogeneous defocusing nonlinearity. <i>Scientific Reports</i> , 2015, 5, 9420.	1.6	10
106	Bloch oscillations sustained by nonlinearity. <i>Scientific Reports</i> , 2017, 7, 3194.	1.6	10
107	Exotic complexes in one-dimensional Bose-Einstein condensates with spin-orbit coupling. <i>Scientific Reports</i> , 2018, 8, 3706.	1.6	10
108	Accurate photon echo timing by optical freezing of exciton dephasing and rephasing in quantum dots. <i>Communications Physics</i> , 2020, 3, .	2.0	10

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109	Chapter 6 Coulomb correlation signatures in the excitonic optical nonlinearities of semiconductors. <i>Semiconductors and Semimetals</i> , 2001, , 231-313.	0.4	9
110	Optically induced coherent intraband dynamics in disordered semiconductors. <i>Physical Review B</i> , 2002, 65, .	1.1	9
111	Signatures of biexcitons and triexcitons in coherent non-degenerate semiconductor optics. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 537-540.	0.7	9
112	Theory for the nonlinear optical response of semiconductor surfaces: Application to the optical Stark effect and spectral oscillations of the Si(111)-(2Å-1)surface exciton. <i>Physical Review B</i> , 2003, 68, .	1.1	9
113	Femtosecond time-resolved five-wave mixing at silicon surfaces. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S221-S244.	0.7	9
114	Enhanced light-matter interaction in semiconductor heterostructures embedded in one-dimensional photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 2039.	0.9	9
115	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 2552-2555.	1.3	9
116	Ultrafast shift and rectification photocurrents in GaAs quantum wells: Excitation intensity dependence and the importance of band mixing. <i>Physical Review B</i> , 2016, 94, .	1.1	9
117	High-Resolution Two-Dimensional Optical Spectroscopy of Electron Spins. <i>Physical Review X</i> , 2017, 7, .	2.8	9
118	Intraband terahertz emission from coupled semiconductor quantum wells: A model study using the exciton representation. <i>Physical Review B</i> , 1999, 60, 2599-2609.	1.1	8
119	Semiconductor absorption in photonic crystals. <i>Applied Physics Letters</i> , 2003, 82, 355-357.	1.5	8
120	Excitonic wave packet dynamics in semiconductor photonic-crystal structures. <i>Physical Review B</i> , 2005, 71, .	1.1	8
121	Precession and nutation dynamics of nonlinearly coupled non-coaxial three-dimensional matter wave vortices. <i>Scientific Reports</i> , 2016, 6, 22758.	1.6	8
122	Dynamics of dipoles and vortices in nonlinearly coupled three-dimensional field oscillators. <i>Physical Review E</i> , 2016, 94, 012207.	0.8	8
123	Time-resolved photon echoes from donor-bound excitons in ZnO epitaxial layers. <i>Physical Review B</i> , 2017, 96, .	1.1	8
124	Spatially inhomogeneous optical gain in semiconductor photonic-crystal structures. <i>Physical Review B</i> , 2005, 71, .	1.1	7
125	Selection rules and linear absorption spectra of carbon nanotubes in axial magnetic fields. <i>Physical Review B</i> , 2013, 88, .	1.1	7
126	Influence of Coulomb-induced band couplings on linear excitonic absorption spectra of semiconducting carbon nanotubes. <i>Physical Review B</i> , 2014, 89, .	1.1	7

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127	Bloch oscillations and resonant radiation of light propagating in arrays of nonlinear fibers with high-order dispersion. <i>Physical Review A</i> , 2017, 96, .	1.0	7
128	Modified two-photon interference achieved by the manipulation of entanglement. <i>Physical Review A</i> , 2017, 96, .	1.0	7
129	Dark-state and loss-induced phenomena in the quantum-optical regime of $\hat{\rho}$ -type three-level systems. <i>Physical Review A</i> , 2021, 103, .	1.0	7
130	Current Echoes Induced by Coherent Control. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 379-384.	0.7	6
131	Semiconductor excitons in photonic crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 238, 439-442.	0.7	6
132	Characterization of Disorder in Semiconductors via Single-Photon Interferometry. <i>Physical Review Letters</i> , 2006, 97, 227402.	2.9	6
133	Indium oxide inverse opal films synthesized by structure replication method. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2016, 19, 55-63.	1.0	6
134	Ballistic photocurrents in semiconductor quantum wells caused by the excitation of asymmetric excitons. <i>Physical Review B</i> , 2019, 100, .	1.1	6
135	Low-field onset of Wannier-Stark localization in a polycrystalline hybrid organic inorganic perovskite. <i>Nature Communications</i> , 2021, 12, 5719.	5.8	6
136	Determination of excitonic binding energies in symmetrically strained (GaIn)As/Ga(AsP) multiple quantum wells using quantum beat spectroscopy. <i>Superlattices and Microstructures</i> , 1994, 15, 329.	1.4	5
137	Femtosecond four-wave-mixing spectroscopy of interacting magnetoexcitons in semiconductor quantum wells. <i>Physical Review B</i> , 1999, 59, 12584-12597.	1.1	5
138	Analysis of Excitonic Absorption Changes Induced by Incoherent Exciton and Electron-Hole Pair Populations. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 211-214.	0.7	5
139	Microscopic modeling of the optical properties of semiconductor nanostructures. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2480-2483.	1.5	5
140	Determination of homogeneous and inhomogeneous broadenings of quantum-well excitons by 2DFTS: An experiment-theory comparison. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 445-448.	0.8	5
141	Strongly nonresonant four-wave mixing in semiconductors. <i>Physical Review B</i> , 2020, 101, .	1.1	5
142	Coherent dynamics of exciton wavepackets in semiconductor heterostructures. <i>Semiconductor Science and Technology</i> , 1994, 9, 1965-1971.	1.0	4
143	Comparison of the Differential Absorption Obtained within a Few-Level Model and the Microscopic Density-Matrix Theory. <i>Physica Status Solidi (B): Basic Research</i> , 2000, 221, 249-252.	0.7	4
144	Coherent spectral oscillations in multiwave mixing. <i>Physical Review B</i> , 2001, 64, .	1.1	4

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145	Signatures of Trions in the Optical Spectra of Doped Semiconductor Nanorings in a Magnetic Field. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 283-293.	0.7	4
146	Dynamics of short-time-scale energy relaxation of optical excitations due to electron-electron scattering in the presence of arbitrary disorder. <i>Physical Review B</i> , 2003, 68, .	1.1	4
147	Wigner approach to quantum dynamics simulations of the interacting carriers in disordered systems. <i>Physica Status Solidi (B): Basic Research</i> , 2004, 241, 40-46.	0.7	4
148	Nonlinear optical response of the $\text{Si}(111)\sqrt{2}\sqrt{2}-1$ surface exciton: Influence of biexciton many-body correlations. <i>Physical Review B</i> , 2005, 71, .	1.1	4
149	Microscopic modeling of photoluminescence of strongly disordered semiconductors. <i>Journal of Luminescence</i> , 2007, 124, 99-112.	1.5	4
150	Anticrossing of Whispering Gallery Modes in microdisk resonators embedded in an anisotropic environment. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2010, 8, 273-277.	1.0	4
151	Simulation of the ultrafast nonlinear optical response of metal slabs. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 887-891.	0.7	4
152	Photonic crystal waveguides intersection for resonant quantum dot optical spectroscopy detection. <i>Optics Express</i> , 2012, 20, 14130.	1.7	4
153	Optimal second-harmonic generation in split-ring resonator arrays. , 2013, , .		4
154	Anisotropic excitons and their contributions to shift current transients in bulk GaAs. <i>Physical Review B</i> , 2017, 96, .	1.1	4
155	Nonlinearity-induced localization in a periodically driven semidiscrete system. <i>Physical Review E</i> , 2018, 97, 062210.	0.8	4
156	Ultrafast Dynamics of Optically-Induced Charge and Spin Currents in Semiconductors. , 2008, , 199-210.		4
157	Coherent contributions to population dynamics in a semiconductor microcavity. <i>Physical Review B</i> , 2022, 105, .	1.1	4
158	Electric-field-induced exciton ionization in a GaAs/AlGaAs superlattice. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995, 17, 1759-1762.	0.4	3
159	Generation of injection currents in (110)-oriented GaAs quantum wells: experimental observation and development of a microscopic theory. , 2009, , .		3
160	Generation and time-resolved detection of coherently controlled electric currents at surfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009, 6, 461-465.	0.8	3
161	Oscillatory excitation energy dependence of injection currents in GaAs/AlGaAs quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 1137-1140.	0.8	3
162	Curvature effects in the band structure of carbon nanotubes including spin-orbit coupling. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 445501.	0.7	3

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163	Time-domain calculations of shift currents in bulk GaAs. Proceedings of SPIE, 2015, , .	0.8	3
164	Simulations of high harmonic generation from plasmonic nanoparticles in the terahertz region. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	3
165	Advanced optical manipulation of carrier spins in (In,Ga)As quantum dots. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	3
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