## Torsten Meier

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sub-cycle control of terahertz high-harmonic generation by dynamical Bloch oscillations. Nature Photonics, 2014, 8, 119-123.	31.4	808
2	Optical investigation of Bloch oscillations in a semiconductor superlattice. Physical Review B, 1992, 46, 7252-7255.	3.2	521
3	Exciton-migration and three-pulse femtosecond optical spectroscopies of photosynthetic antenna complexes. Journal of Chemical Physics, 1998, 108, 7763-7774.	3.0	380
4	High harmonics generated in semiconductor nanostructures by the coupled dynamics of optical inter- and intraband excitations. Physical Review B, 2008, 77, .	3.2	285
5	Polarons, localization, and excitonic coherence in superradiance of biological antenna complexes. Journal of Chemical Physics, 1997, 107, 3876-3893.	3.0	190
6	Multiple Exciton Coherence Sizes in Photosynthetic Antenna Complexes viewed by Pumpâ^'Probe Spectroscopy. Journal of Physical Chemistry B, 1997, 101, 7332-7342.	2.6	188
7	Coulomb Memory Signatures in the Excitonic Optical Stark Effect. Physical Review Letters, 1999, 82, 3112-3115.	7.8	182
8	Collective Effects in Second-Harmonic Generation from Split-Ring-Resonator Arrays. Physical Review Letters, 2012, 109, 015502.	7.8	160
9	Evidence of biexcitonic contributions to four-wave mixing in GaAs quantum wells. Physical Review B, 1994, 50, 14730-14733.	3.2	145
10	Coherent Electric-Field Effects in Semiconductors. Physical Review Letters, 1994, 73, 902-905.	7.8	142
11	Time-Resolved Investigation of Coherently Controlled Electric Currents at a Metal Surface. Science, 2007, 318, 1287-1291.	12.6	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.	7.1	110
13	Disorder mediated biexcitonic beats in semiconductor quantum wells. Physical Review B, 1996, 54, 4436-4439.	3.2	107
14	Femtosecond photon echoes in molecular aggregates. Journal of Chemical Physics, 1997, 107, 8759-8780.	3.0	101
15	Dynamic Localization in Anisotropic Coulomb Systems: Field Induced Crossover of the Exciton Dimension. Physical Review Letters, 1995, 75, 2558-2561.	7.8	97
16	Coherent dynamics of excitonic wave packets. Physical Review Letters, 1993, 70, 3027-3030.	7.8	88
17	Quantum theory of phonon-assisted exciton formation and luminescence in semiconductor quantum wells. Physical Review B, 2000, 62, 2706-2720.	3.2	75
18	Superradiance Coherence Sizes in Single-Molecule Spectroscopy of LH2 Antenna Complexes. Journal of Physical Chemistry B. 1999. 103. 3954-3962.	2.6	74

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19	Soliton Gyroscopes in Media with Spatially Growing Repulsive Nonlinearity. Physical Review Letters, 2014, 112, 020404.	7.8	72
20	Coherent control of a single exciton qubit by optoelectronic manipulation. Nature Photonics, 2010, 4, 545-548.	31.4	66
21	Nonlinear integrated quantum electro-optic circuits. Science Advances, 2019, 5, eaat1451.	10.3	65
22	Polarization dependence of beating phenomena at the energetically lowest exciton transition in GaAs quantum wells. Physical Review B, 1995, 51, 10909-10914.	3.2	59
23	Subpicosecond photon-echo spectroscopy on GaAs/AlAs short-period superlattices. Physical Review B, 1993, 47, 1532-1539.	3.2	56
24	Coherent effects induced by static and time-dependent electric fields in semiconductors. Physical Review B, 1995, 51, 14490-14497.	3.2	55
25	Microscopic theory of the extremely nonlinear terahertz response of semiconductors. Physica Status Solidi (B): Basic Research, 2011, 248, 863-866.	1.5	55
26	Coupled Airy breathers. Optics Letters, 2014, 39, 5523.	3.3	55
27	Toolbox for the design of LiNbO <sub>3</sub> -based passive and active integrated quantum circuits. New Journal of Physics, 2017, 19, 123009.	2.9	53
28	Microscopic Analysis of the Coherent Optical Generation and the Decay of Charge and Spin Currents in Semiconductor Heterostructures. Physical Review Letters, 2005, 95, 086606.	7.8	52
29	Ultrafast carrier relaxation and vertical-transport phenomena in semiconductor superlattices: A Monte Carlo analysis. Physical Review B, 1995, 51, 16943-16953.	3.2	49
30	Realization of all-optical vortex switching in exciton-polariton condensates. Nature Communications, 2020, 11, 897.	12.8	49
31	Simultaneous influence of disorder and Coulomb interaction on photon echoes in semiconductors. Physical Review B, 1994, 50, 8114-8117.	3.2	47
32	Three-dimensional hybrid vortex solitons. New Journal of Physics, 2014, 16, 063035.	2.9	47
33	Observation and Uses of Position-Space Bloch Oscillations in an Ultracold Gas. Physical Review Letters, 2018, 120, 213201.	7.8	47
34	Microscopic analysis of extreme nonlinear optics in semiconductor nanostructures. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 2559.	2.1	46
35	Signatures of correlations in intensity-dependent excitonic absorption changes. Physical Review B, 2000, 62, 4218-4221.	3.2	45
36	Spectral signatures of χ^(5) processes in four-wave mixing of homogeneously broadened excitons. Journal of the Optical Society of America B: Optical Physics, 2001, 18, 1318.	2.1	44

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37	Influence of scattering on the formation of Wannier-Stark ladders and Bloch oscillations in semiconductor superlattices. Physical Review B, 1994, 49, 14058-14061.	3.2	43
38	Influence of carrier correlations on the excitonic optical response including disorder and microcavity effects. European Physical Journal B, 1999, 11, 407.	1.5	43
39	Coherent Excitation Spectroscopy on Inhomogeneous Exciton Ensembles. Physical Review Letters, 1999, 83, 2073-2076.	7.8	40
40	Signatures of transient Wannier-Stark localization in bulk gallium arsenide. Nature Communications, 2018, 9, 2890.	12.8	40
41	Dissipative dynamics of an electronic wavepacket in a semiconductor double well potential. IEEE Journal of Quantum Electronics, 1992, 28, 2498-2507.	1.9	39
42	Disorder-induced dephasing in semiconductors. Physical Review B, 2000, 61, 13088-13098.	3.2	38
43	Simulation of three–pulse–echo and fluorescence depolarization in photosynthetic aggregates. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 405-419.	3.4	37
44	Scaling of Fluorescence Stokes Shift and Superradiance Coherence Size in Disordered Molecular Aggregates. Journal of Physical Chemistry A, 1999, 103, 10294-10299.	2.5	37
45	Dipole-dipole coupling of excitons in double quantum wells. Physical Review B, 1993, 48, 11817-11826.	3.2	36
46	Influence of carrier correlations on the excitonic optical response including disorder and microcavity effects. European Physical Journal B, 1999, 11, 407-421.	1.5	35
47	Five-Wave-Mixing Spectroscopy of Ultrafast Electron Dynamics at a Si(001) Surface. Physical Review Letters, 2004, 92, 127405.	7.8	34
48	Coherent Control of Absorption and Polarization Decay in a GaAs Quantum Well: Time and Spectral Domain Studies. Physical Review Letters, 2000, 84, 3474-3477.	7.8	33
49	Nonequilibrium gain in optically pumped GaInNAs laser structures. Applied Physics Letters, 2004, 85, 5526-5528.	3.3	33
50	Theory of coherent effects in semiconductors. Journal of Luminescence, 1999, 83-84, 1-6.	3.1	32
51	Enhanced high-order harmonic generation in semiconductors by excitation with multicolor pulses. Physical Review A, 2020, 101, .	2.5	32
52	Signatures of many-particle correlations in two-dimensional Fourier-transform spectra of semiconductor nanostructures. Solid State Communications, 2007, 142, 154-158.	1.9	31
53	Attosecond temporal confinement of interband excitation by intraband motion. Optics Express, 2019, 27, 2225.	3.4	31
54	Influence of light holes on the heavy-hole excitonic optical Stark effect. Physical Review B, 2001, 64, .	3.2	30

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55	Dephasing of interacting heavy-hole and light-hole excitons in GaAs quantum wells. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1026.	2.1	29
56	Microscopic theory of the intracollisional field effect in semiconductor superlattices. Physical Review B, 1997, 55, 13799-13807.	3.2	29
57	Excitons versus unbound electron-hole pairs and their influence on exciton bleaching: A model study. Physical Review B, 1999, 59, 13202-13208.	3.2	29
58	Femtosecond Spectroscopic Signatures of Electronic Correlations in Conjugated Polyenes and Semiconductor Nanostructures. Physical Review Letters, 1996, 77, 3471-3474.	7.8	28
59	Effective Frenkel Hamiltonian for optical nonlinearities in semiconductors: Application to magnetoexcitons. Physical Review B, 1998, 58, 4496-4516.	3.2	28
60	Interacting electrons in a one-dimensional random array of scatterers: A quantum dynamics and Monte Carlo study. Physical Review B, 2002, 65, .	3.2	26
61	Determination of homogeneous and inhomogeneous broadening in semiconductor nanostructures by two-dimensional Fourier-transform optical spectroscopy. Physical Review B, 2007, 76, .	3.2	26
62	Microscopic analysis of charge and spin photocurrents injected by circularly polarized one-color laser pulses in GaAs quantum wells. Physical Review B, 2010, 82, .	3.2	26
63	Multipoles and vortex multiplets in multidimensional media with inhomogeneous defocusing nonlinearity. New Journal of Physics, 2015, 17, 083043.	2.9	26
64	Nonlinear dynamics of Airy-vortex 3D wave packets: emission of vortex light waves. Optics Letters, 2014, 39, 5539.	3.3	25
65	Strong coupling of heavy- and light-hole excitons induced by many-body correlations. Physical Review B, 2000, 62, 12605-12608.	3.2	24
66	Temporal decay of coherently optically injected charge and spin currents due to carrier–LO-phonon and carrier-carrier scattering. Physical Review B, 2006, 74, .	3.2	24
67	Microscopic theory of optical dephasing in semiconductors. Applied Physics A: Materials Science and Processing, 2000, 71, 511-517.	2.3	23
68	Signatures of Fano resonances in four-wave-mixing experiments. Physical Review B, 1995, 51, 13977-13986.	3.2	22
69	Femtosecond Four-Wave Mixing Experiments on GaAs Quantum Wells Using Two Independently Tunable Lasers. Physical Review Letters, 1998, 80, 4803-4806.	7.8	22
70	Timeâ€Resolved Fourâ€Wave Mixing in GaAs/AlAs Quantum Well Structures. Physica Status Solidi (B): Basic Research, 1992, 173, 21-30.	1.5	21
71	Time-resolved photoluminescence of type-I and type-II(GaIn)Asâ^•Ga(NAs)heterostructures. Physical Review B, 2005, 71, .	3.2	21
72	Reversal of Coherently Controlled Ultrafast Photocurrents by Band Mixing in Undoped GaAs Quantum Wells. Physical Review Letters, 2010, 104, 217401.	7.8	21

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73	Theory of filtered type-II parametric down-conversion in the continuous-variable domain: Quantifying the impacts of filtering. Physical Review A, 2014, 90, .	2.5	21
74	Correlation effects in the excitonic optical properties of semiconductors. Journal of Optics B: Quantum and Semiclassical Optics, 2001, 3, R29-R45.	1.4	20
75	Neighboring Atom Collisions in Solid-State High Harmonic Generation. Ultrafast Science, 2021, 2021, .	11.2	20
76	Polarization selection rules for quantum beating between light- and heavy-hole excitons in GaAs quantum wells. Solid State Communications, 1995, 94, 373-377.	1.9	19
77	Exciton ionization induced by an electric field in a strongly coupled GaAs/AlxGa1â^xAs superlattice. Physical Review B, 1996, 53, 13688-13693.	3.2	19
78	Coupled absorber-cavity system: Observation of a characteristic nonlinear response. Physical Review B, 1998, 57, R2049-R2052.	3.2	19
79	Damping of Rabi oscillations in intensity-dependent photon echoes from exciton complexes in a CdTe/(Cd,Mg)Te single quantum well. Physical Review B, 2017, 96, .	3.2	19
80	Regeneration of Airy pulses in fiber-optic links with dispersion management of the two leading dispersion terms of opposite signs. Physical Review A, 2014, 89, .	2.5	18
81	Microscopic analysis of high harmonic generation in semiconductors with degenerate bands. Physical Review B, 2021, 103, .	3.2	18
82	Electronic-oscillator analysis of femtosecond four-wave mixing in conjugated polyenes. Physical Review B, 1997, 55, 4960-4977.	3.2	17
83	Density-matrix–electronic-oscillator representation of optical spectroscopy of semiconductor nanocrystals. Journal of Chemical Physics, 1997, 106, 3837-3853.	3.0	16
84	Electrong-factor anisotropy in symmetric (110)-oriented GaAs quantum wells. Physical Review B, 2011, 84, .	3.2	16
85	Theory of quasiequilibrium nonlinear optical absorption in semiconductor superlattices. Applied Physics Letters, 1995, 67, 2978-2980.	3.3	15
86	Type I-type II transition in InGaAs–GaNAs heterostructures. Applied Physics Letters, 2005, 86, 081903.	3.3	15
87	Coulomb Correlations and Biexciton Signatures in Coherent Excitation Spectroscopy of Semiconductor Quantum Wells. Physica Status Solidi (B): Basic Research, 2002, 234, 424-434.	1.5	14
88	Theory of the optical properties of semiconductor nanostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 45-52.	2.7	14
89	Linear and nonlinear optical properties of semiconductor nanorings with magnetic field and disorder - Influence on excitons and biexcitons. European Physical Journal B, 2001, 22, 249-256.	1.5	13
90	Microscopic analysis of highâ€harmonic generation in semiconductor nanostructures. Physica Status Solidi C: Current Topics in Solid State Physics, 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. Optics Letters, 2009, 34, 2900.	3.3	13
92	Excitation induced shift and broadening of the exciton resonance. Physica B: Condensed Matter, 2002, 314, 309-313.	2.7	12
93	Gain and carrier losses of (Galn)(NAs) heterostructures in the 1300–1550 nm range. Applied Physics Letters, 2005, 87, 261109.	3.3	12
94	Two-dimensional symbiotic solitons and vortices in binary condensates with attractive cross-species interaction. Scientific Reports, 2016, 6, 34847.	3.3	12
95	Higher-order contributions and nonperturbative effects in the nondegenerate nonlinear optical absorption of semiconductors using a two-band model. Physical Review B, 2019, 99, .	3.2	12
96	Field-dependent absorption in superlattices: Comparison of theory and experiment. Applied Physics Letters, 1998, 73, 2612-2614.	3.3	11
97	From Exciton Resonance to Frequency Mixing in GaAs Multiple Quantum Wells. Physical Review Letters, 1999, 82, 3879-3882.	7.8	11
98	Coherent dynamics of photoexcited semiconductor superlattices in homogeneous electric fields. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 7, 267-273.	2.7	11
99	Coherent dynamics of magnetoexcitons in semiconductor nanorings. European Physical Journal B, 2001, 19, 599-606.	1.5	11
100	Rabi flopping of charge and spin currents generated by ultrafast two-colour photoexcitation of semiconductor quantum wells. Solid State Communications, 2008, 145, 61-65.	1.9	11
101	Tuning quantum-dot based photonic devices with liquid crystals. Optics Express, 2010, 18, 7946.	3.4	11
102	Femtosecond quantum interference control of electrical currents in GaAs: Signatures beyond the perturbative <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo><mml:mo><mml:mo><mml:mn>3</mml:mn></mml:mo></mml:mo></mml:mo></mml:math></mml:math></mml:math></mml:math></mml:math></mml:math>	ı> <mmil:mo< td=""><td>&gt;&gt;)</td></mmil:mo<>	>>)
103	Towards integrated superconducting detectors on lithium niobate waveguides. , 2017, , .		11
104	Modeling excitonic line shapes in weakly disordered semiconductor nanostructures. Physical Review B, 2010, 81, .	3.2	10
105	Creation of vortices by torque in multidimensional media with inhomogeneous defocusing nonlinearity. Scientific Reports, 2015, 5, 9420.	3.3	10
106	Bloch oscillations sustained by nonlinearity. Scientific Reports, 2017, 7, 3194.	3.3	10
107	Exotic complexes in one-dimensional Bose-Einstein condensates with spin-orbit coupling. Scientific Reports, 2018, 8, 3706.	3.3	10
108	Accurate photon echo timing by optical freezing of exciton dephasing and rephasing in quantum dots. Communications Physics, 2020, 3, .	5.3	10

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109	Chapter 6 Coulomb correlation signatures in the excitonic optical nonlinearities of semiconductors. Semiconductors and Semimetals, 2001, , 231-313.	0.7	9
110	Optically induced coherent intraband dynamics in disordered semiconductors. Physical Review B, 2002, 65, .	3.2	9
111	Signatures of biexcitons and triexcitons in coherent non-degenerate semiconductor optics. Physica Status Solidi (B): Basic Research, 2003, 238, 537-540.	1.5	9
112	Theory for the nonlinear optical response of semiconductor surfaces: Application to the optical Stark effect and spectral oscillations of the Si(111)-(2×1)surface exciton. Physical Review B, 2003, 68, .	3.2	9
113	Femtosecond time-resolved five-wave mixing at silicon surfaces. Journal of Physics Condensed Matter, 2005, 17, S221-S244.	1.8	9
114	Enhanced light-matter interaction in semiconductor heterostructures embedded in one-dimensional photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2039.	2.1	9
115	Self-assembled quantum dots in a liquid-crystal-tunable microdisk resonator. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2552-2555.	2.7	9
116	Ultrafast shift and rectification photocurrents in GaAs quantum wells: Excitation intensity dependence and the importance of band mixing. Physical Review B, 2016, 94, .	3.2	9
117	High-Resolution Two-Dimensional Optical Spectroscopy of Electron Spins. Physical Review X, 2017, 7, .	8.9	9
118	Intraband terahertz emission from coupled semiconductor quantum wells: A model study using the exciton representation. Physical Review B, 1999, 60, 2599-2609.	3.2	8
119	Semiconductor absorption in photonic crystals. Applied Physics Letters, 2003, 82, 355-357.	3.3	8
120	Excitonic wave packet dynamics in semiconductor photonic-crystal structures. Physical Review B, 2005, 71, .	3.2	8
121	Precession and nutation dynamics of nonlinearly coupled non-coaxial three-dimensional matter wave vortices. Scientific Reports, 2016, 6, 22758.	3.3	8
122	Dynamics of dipoles and vortices in nonlinearly coupled three-dimensional field oscillators. Physical Review E, 2016, 94, 012207.	2.1	8
123	Time-resolved photon echoes from donor-bound excitons in ZnO epitaxial layers. Physical Review B, 2017, 96, .	3.2	8
124	Spatially inhomogeneous optical gain in semiconductor photonic-crystal structures. Physical Review B, 2005, 71, .	3.2	7
125	Selection rules and linear absorption spectra of carbon nanotubes in axial magnetic fields. Physical Review B, 2013, 88, .	3.2	7
126	Influence of Coulomb-induced band couplings on linear excitonic absorption spectra of semiconducting carbon nanotubes. Physical Review B, 2014, 89, .	3.2	7

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127	Bloch oscillations and resonant radiation of light propagating in arrays of nonlinear fibers with high-order dispersion. Physical Review A, 2017, 96, .	2.5	7
128	Modified two-photon interference achieved by the manipulation of entanglement. Physical Review A, 2017, 96, .	2.5	7
129	Dark-state and loss-induced phenomena in the quantum-optical regime of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"&gt; <mml:mi mathvariant="normal"&gt;ĥ  -type three-level systems. Physical Review A, 2021, 103, .</mml:mi </mml:math 	2.5	7
130	Current Echoes Induced by Coherent Control. Physica Status Solidi (B): Basic Research, 2000, 221, 379-384.	1.5	6
131	Semiconductor excitons in photonic crystals. Physica Status Solidi (B): Basic Research, 2003, 238, 439-442.	1.5	6
132	Characterization of Disorder in Semiconductors via Single-Photon Interferometry. Physical Review Letters, 2006, 97, 227402.	7.8	6
133	Indium oxide inverse opal films synthesized by structure replication method. Photonics and Nanostructures - Fundamentals and Applications, 2016, 19, 55-63.	2.0	6
134	Ballistic photocurrents in semiconductor quantum wells caused by the excitation of asymmetric excitons. Physical Review B, 2019, 100, .	3.2	6
135	Low-field onset of Wannier-Stark localization in a polycrystalline hybrid organic inorganic perovskite. Nature Communications, 2021, 12, 5719.	12.8	6
136	Determination of excitonic binding energies in symmetrically strained (Galn)As/Ga(AsP) multiple quantum wells using quantum beat spectroscopy. Superlattices and Microstructures, 1994, 15, 329.	3.1	5
137	Femtosecond four-wave-mixing spectroscopy of interacting magnetoexcitons in semiconductor quantum wells. Physical Review B, 1999, 59, 12584-12597.	3.2	5
138	Analysis of Excitonic Absorption Changes Induced by Incoherent Exciton and Electron-Hole Pair Populations. Physica Status Solidi (B): Basic Research, 2000, 221, 211-214.	1.5	5
139	Microscopic modeling of the optical properties of semiconductor nanostructures. Journal of Non-Crystalline Solids, 2006, 352, 2480-2483.	3.1	5
140	Determination of homogeneous and inhomogeneous broadenings of quantum-well excitons by 2DFTS: An experiment-theory comparison. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 445-448.	0.8	5
141	Strongly nonresonant four-wave mixing in semiconductors. Physical Review B, 2020, 101, .	3.2	5
142	Coherent dynamics of exciton wavepackets in semiconductor heterostructures. Semiconductor Science and Technology, 1994, 9, 1965-1971.	2.0	4
143	Comparison of the Differential Absorption Obtained within a Few-Level Model and the Microscopic Density-Matrix Theory. Physica Status Solidi (B): Basic Research, 2000, 221, 249-252.	1.5	4
144	Coherent spectral oscillations in multiwave mixing. Physical Review B, 2001, 64, .	3.2	4

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145	Signatures of Trions in the Optical Spectra of Doped Semiconductor Nanorings in a Magnetic Field. Physica Status Solidi (B): Basic Research, 2002, 234, 283-293.	1.5	4
146	Dynamics of short-time-scale energy relaxation of optical excitations due to electron-electron scattering in the presence of arbitrary disorder. Physical Review B, 2003, 68, .	3.2	4
147	Wigner approach to quantum dynamics simulations of the interacting carriers in disordered systems. Physica Status Solidi (B): Basic Research, 2004, 241, 40-46.	1.5	4
148	Nonlinear optical response of theSi(111)â^'(2×1)surface exciton: Influence of biexciton many-body correlations. Physical Review B, 2005, 71, .	3.2	4
149	Microscopic modeling of photoluminescence of strongly disordered semiconductors. Journal of Luminescence, 2007, 124, 99-112.	3.1	4
150	Anticrossing of Whispering Gallery Modes in microdisk resonators embedded in an anisotropic environment. Photonics and Nanostructures - Fundamentals and Applications, 2010, 8, 273-277.	2.0	4
151	Simulation of the ultrafast nonlinear optical response of metal slabs. Physica Status Solidi (B): Basic Research, 2011, 248, 887-891.	1.5	4
152	Photonic crystal waveguides intersection for resonant quantum dot optical spectroscopy detection. Optics Express, 2012, 20, 14130.	3.4	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. Physical Review B, 2017, 96, .	3.2	4
155	Nonlinearity-induced localization in a periodically driven semidiscrete system. Physical Review E, 2018, 97, 062210.	2.1	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. Physical Review B, 2022, 105, .	3.2	4
158	Electric-field-induced exciton ionization in a GaAs/AlGaAs superlattice. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 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 timeâ€resolved detection of coherently controlled electric currents at surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 461-465.	0.8	3
161	Oscillatory excitation energy dependence of injection currents in GaAs/AlGaAs quantum wells. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1137-1140.	0.8	3
162	Curvature effects in the band structure of carbon nanotubes including spin–orbit coupling. Journal of Physics Condensed Matter, 2015, 27, 445501.	1.8	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.	2.2	3
165	Advanced optical manipulation of carrier spins in (In,Ga)As quantum dots. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	3
166	Nondegenerate two-photon absorption in ZnSe: Experiment and theory. Physical Review B, 2021, 104, .	3.2	3
167	NONLINEAR OPTICAL PROPERTIES OF SEMICONDUCTOR QUANTUM WELLS INSIDE MICROCAVITIES. Advanced Series in Applied Physics, 2004, , 239-317.	0.0	3
168	Coherent Electric-Field Effects in Semiconductors. Physical Review Letters, 1994, 73, 2638-2638.	7.8	2
169	Microscopic theory for the nonlinear optical response of the Si(111)-(2×1) surface exciton. Physica Status Solidi (B): Basic Research, 2003, 238, 525-528.	1.5	2
170	Numerical analysis of coupled photonic crystal cavities. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 345-350.	2.0	2
171	Numerical investigation of the coupling between microdisk modes and quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1254-1257.	0.8	2
172	Excitonic Eigenstates of Disordered Semiconductor Quantum Wires: Adaptive Wavelet Computation of Eigenvalues for the Electron-Hole Schrödinger Equation. Communications in Computational Physics, 2013, 14, 21-47.	1.7	2
173	Generating two-mode squeezing with multimode measurement-induced nonlinearity. Journal of Physics Communications, 2021, 5, 045002.	1.2	2
174	Approximate nonlinear wave solutions of the coupled two-component Gross–Pitaevskii equations with spin–orbit interaction. New Journal of Physics, 2021, 23, 043045.	2.9	2
175	k.p-based multiband simulations of non-degenerate two-photon absorption in bulk GaAs. , 2020, , .		2
176	Coherent electric-field effects in semiconductors. , 1998, 3277, 20.		1
177	Electronic transport in a one-dimensional random array of scatterers. Journal of Physics A, 2003, 36, 5905-5911.	1.6	1
178	Ultrafast dynamics of photoexcited charge and spin currents in semiconductor nanostructures. , 2007, , .		1
179	Microscopic analysis of the optical and electronic properties of semiconductor photonicâ€crystal structures. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3600-3617.	1.8	1
180	Microscopic theoretical analysis of optically generated injection currents in semiconductor quantum wells. Proceedings of SPIE, 2010, , .	0.8	1

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181	Calculus-based optimization of the electron dynamics in nanostructures. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 328-336.	2.0	1
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