Thomas Garm Pedersen

List of Publications by Year
in descending order

215 papers	6,556 citations	94433 37 h-index	76900 74 g-index
218 all docs	218 docs citations	218 times ranked	7433 citing authors

#	Article	IF	Citations
1	Bandgap opening in graphene induced by patterned hydrogen adsorption. Nature Materials, 2010, 9, 315-319.	27.5	1,344
2	Graphene Antidot Lattices: Designed Defects and Spin Qubits. Physical Review Letters, 2008, 100, 136804.	7.8	451
3	Mean-Field Theory of Photoinduced Formation of Surface Reliefs in Side-Chain Azobenzene Polymers. Physical Review Letters, 1998, 80, 89-92.	7.8	331
4	Recent progress of the Computational 2D Materials Database (C2DB). 2D Materials, 2021, 8, 044002.	4.4	218
5	Variational approach to excitons in carbon nanotubes. Physical Review B, 2003, 67, .	3.2	170
6	Electronic properties of graphene antidot lattices. New Journal of Physics, 2009, 11, 095020.	2.9	143
7	Theory of excitonic second-harmonic generation in monolayer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	3.2	121
8	Dissociation of two-dimensional excitons in monolayer WSe2. Nature Communications, 2018, 9, 1633.	12.8	116
9	Plasmonâ€“Phonon Coupling in Large-Area Graphene Dot and Antidot Arrays Fabricated by Nanosphere Lithography. Nano Letters, 2014, 14, 2907-2913.	9.1	111
10	Optical properties of graphene antidot lattices. Physical Review B, 2008, 77, .	3.2	109
11	Mean-Field Theory of Photoinduced Molecular Reorientation in Azobenzene Liquid Crystalline Side-Chain Polymers. Physical Review Letters, 1997, 79, 2470-2473.	7.8	104
12	Model dielectric function for 2D semiconductors including substrate screening. Scientific Reports, 2017, 7, 39844.	3.3	100
13	Optical matrix elements in tight-binding calculations. Physical Review B, 2001, 63, .	3.2	93
14	Clar Sextet Analysis of Triangular, Rectangular, and Honeycomb Graphene Antidot Lattices. ACS Nano, 2011, 5, 523-529.	14.6	93
15	Lithographic band structure engineering of graphene. Nature Nanotechnology, 2019, 14, 340-346.	31.5	82
16	Layered van der Waals crystals with hyperbolic light dispersion. Nature Communications, 2017, 8, 320.	12.8	79
17	Optical response and excitons in gapped graphene. Physical Review B, 2009, 79, .	3.2	72
18	Exciton effects in carbon nanotubes. Carbon, 2004, 42, 1007-1010.	10.3	66

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19	Stability and Signatures of Biexcitons in Carbon Nanotubes. Nano Letters, 2005, 5, 291-294.	9.1	63
20	Exciton Stark shift and electroabsorption in monolayer transition-metal dichalcogenides. Physical Review B, 2016, 94, .	3.2	61
21	Theoretical model of photoinduced anisotropy in liquid-crystalline azobenzene side-chain polyesters. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1120.	2.1	57
22	Analytic calculation of the optical properties of graphite. Physical Review B, 2003, 67, .	3.2	57
23	Density functional study of graphene antidot lattices: Roles of geometrical relaxation and spin. Physical Review B, 2009, 80, .	3.2	56
24	Intraband effects in excitonic second-harmonic generation. Physical Review B, 2015, 92, .	3.2	55
25	Nonperturbative Quantum Physics from Low-Order Perturbation Theory. Physical Review Letters, 2015, 115, 143001.	7.8	51
26	Observation of excitonic resonances in the second harmonic spectrum of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mn Physical Review B, 2015, 92, .	3.2	48
27	Characterization of azobenzene chromophores for reversible optical data storage: molecular quantum calculations. Journal of Optics, 2000, 2, 272-278.	1.5	46
28	Linear and nonlinear optical response of crystals using length and velocity gauges: Effect of basis truncation. Physical Review B, 2017, 96, .	3.2	46
29	Interlayer excitons in van der Waals heterostructures: Binding energy, Stark shift, and field-induced dissociation. Scientific Reports, 2020, 10, 5537.	3.3	46
30	High-order harmonic generation from gapped graphene: Perturbative response and transition to nonperturbative regime. Physical Review B, 2017, 95, .	3.2	45
31	Graphene antidot lattice waveguides. Physical Review B, 2012, 86, .	3.2	43
32	A library of ab initio Raman spectra for automated identification of 2D materials. Nature Communications, 2020, 11, 3011.	12.8	43
33	Fast summation of divergent series and resurgent transseries from Meijer- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math> approximants. Physical Review D, 2018, 97, .	4.7	40
34	Intense and tunable second-harmonic generation in biased bilayer graphene. Physical Review B, 2015, 91, .	3.2	39
35	Exciton ionization in multilayer transition-metal dichalcogenides. New Journal of Physics, 2016, 18, 073043.	2.9	39
36	Quantum theory and experimental studies of absorption spectra and photoisomerization of azobenzene polymers. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 2721.	2.1	38

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37	Correlation and dimensional effects of trions in carbon nanotubes. Physical Review B, 2010, 81, .	3.2	38
38	Quasiparticle properties of graphene antidot lattices. Physical Review B, 2009, 80, .	3.2	37
39	Stark effect in low-dimensional hydrogen. Physical Review A, 2016, 93, .	2.5	36
40	Nonlinear photocurrents in two-dimensional systems based on graphene and boron nitride. Physical Review B, 2016, 94, .	3.2	34
41	Pore size dependence of diffuse light scattering from anodized aluminum solar cell backside reflectors. Optics Express, 2013, 21, A84.	3.4	30
42	Free-carrier and exciton Franz-Keldysh theory for one-dimensional semiconductors. Physical Review B, 2002, 65, .	3.2	29
43	Large and stable band gaps in spin-polarized graphene antidot lattices. Physical Review B, 2013, 88, .	3.2	29
44	Two-Dimensional Materials with Giant Optical Nonlinearities near the Theoretical Upper Limit. ACS Nano, 2021, 15, 7155-7167.	14.6	29
45	Stability of singlet and triplet trions in carbon nanotubes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 1478-1481.	2.1	28
46	Exact polarizability of low-dimensional excitons. Solid State Communications, 2007, 141, 569-572.	1.9	27
47	Hofstadter butterflies and magnetically induced band-gap quenching in graphene antidot lattices. Physical Review B, 2013, 87, .	3.2	26
48	Exciton states in spherical parabolic GaAs quantum dots. Journal of Physics Condensed Matter, 1996, 8, 5725-5735.	1.8	25
49	Tight-binding study of the magneto-optical properties of gapped graphene. Physical Review B, 2011, 84, .	3.2	25
50	Gauge invariance of excitonic linear and nonlinear optical response. Physical Review B, 2018, 97, .	3.2	25
51	Particle-in-a-box model of one-dimensional excitons in conjugated polymers. Physical Review B, 2000, 61, 10504-10510.	3.2	24
52	Indirect optical absorption in silicon via thin-film surface plasmon. Journal of Applied Physics, 2012, 112, .	2.5	24
53	Analysis of plasmonic properties of heavily doped semiconductors using full band structure calculations. Journal of Applied Physics, 2013, 113, .	2.5	24
54	Self-consistent tight-binding model of B and N doping in graphene. Physical Review B, 2013, 87, .	3.2	24

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55	Nonlocal plasmonic response of doped and optically pumped graphene, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></m , and black phosphorus. Physical Review B, 2017, 96, .	3.2	22
56	Quantum spill-out in few-nanometer metal gaps: Effect on gap plasmons and reflectance from ultrasharp groove arrays. Physical Review B, 2018, 97, .	3.2	22
57	Reliability of point source approximations in compact LED lens designs. Optics Express, 2011, 19, A1190.	3.4	21
58	Field-induced dissociation of two-dimensional excitons in transition metal dichalcogenides. Physical Review B, 2019, 100, .	3.2	21
59	Optical second-harmonic generation and photoemission from quantum well states in thin Ag films on Si(1 1 1). Surface Science, 2001, 482-485, 735-739.	1.9	20
60	Tight-binding theory of Faraday rotation in graphite. Physical Review B, 2003, 68, .	3.2	20
61	Systematic tight-binding study of optical second-harmonic generation in carbon nanotubes. Physical Review B, 2009, 79, .	3.2	20
62	Biexciton binding energy in fractional dimensional semiconductors. Physical Review B, 2012, 85, .	3.2	20
63	Band gaps in graphene via periodic electrostatic gating. Physical Review B, 2012, 85, .	3.2	20
64	Universal analytic expression of electric-dipole matrix elements for carbon nanotubes. Physical Review B, 2009, 80, .	3.2	19
65	<i>Ab initio</i>calculation of electronic and optical properties of metallic tin. Journal of Physics Condensed Matter, 2009, 21, 115502.	1.8	19
66	Erbium diffusion in silicon dioxide. Applied Physics Letters, 2010, 97, 141903.	3.3	19
67	The Faraday effect revisited: General theory. Journal of Mathematical Physics, 2006, 47, 013511.	1.1	18
68	Dyadic Greenâ€™s functions of thin films: Applications within plasmonic solar cells. Physical Review B, 2011, 83, .	3.2	18
69	Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions. Physical Review B, 2017, 96, .	3.2	18
70	Nonlinear optical response of doped monolayer and bilayer graphene: Length gauge tight-binding model. Physical Review B, 2018, 98, .	3.2	18
71	Retarded electromagnetic response of a spherical quantum dot: A self-consistent field calculation. Physical Review B, 1995, 52, 4670-4673.	3.2	17
72	Optical second-harmonic generation from Ag quantum wells onSi(111)7Ã—7:Experiment and theory. Physical Review B, 1999, 60, R13997-R14000.	3.2	17

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73	Secondâ€harmonic generation from ZnO nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2671-2674.	0.8	17
74	Calculation of optical matrix elements in carbon nanotubes. Physical Review B, 2010, 81, .	3.2	17
75	Electronic and optical properties of graphene antidot lattices: comparison of Dirac and tight-binding models. Journal of Physics Condensed Matter, 2014, 26, 265301.	1.8	17
76	Dirac model of electronic transport in graphene antidot barriers. Journal of Physics Condensed Matter, 2014, 26, 335301.	1.8	17
77	Hypergeometric resummation of self-consistent sunset diagrams for steady-state electron-boson quantum many-body systems out of equilibrium. Physical Review B, 2016, 94, .	3.2	17
78	Floquet-Bloch shifts in two-band semiconductors interacting with light. Physical Review A, 2017, 95, .	2.5	17
79	Tuning of impurity-bound interlayer complexes in a van der Waals heterobilayer. 2D Materials, 2019, 6, 035032.	4.4	17
80	Second-harmonic generation spectroscopy on quantum wells: Au on Si(111). Applied Physics B: Lasers and Optics, 1999, 68, 637-640.	2.2	16
81	Quasiparticle electronic and optical properties of the Siâ€"Sn system. Journal of Physics Condensed Matter, 2011, 23, 345501.	1.8	16
82	Stability and magnetization of free-standing and graphene-embedded iron membranes. Physical Review B, 2015, 91, .	3.2	16
83	Nonlinear optical response of relativistic energy bands: Application to phosphorene. Physical Review B, 2017, 95, .	3.2	16
84	Density-functional-based tight-binding calculation of excitons in conjugated polymers. Physical Review B, 2004, 69, .	3.2	15
85	Electrostatic plasmon resonances of metal nanospheres in layered geometries. Physical Review B, 2010, 81, .	3.2	15
86	Dirac model of an isolated graphene antidot in a magnetic field. Physical Review B, 2012, 85, .	3.2	15
87	Transport in graphene antidot barriers and tunneling devices. Journal of Applied Physics, 2012, 112, 113715.	2.5	15
88	Spin relaxation in hydrogenated graphene. Physical Review B, 2015, 92, .	3.2	15
89	Analytical Dirac model of graphene rings, dots, and antidots in magnetic fields. Physical Review B, 2017, 95, .	3.2	15
90	Optical third harmonic generation in black phosphorus. Physical Review B, 2018, 97, .	3.2	15

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91	One-Dimensional Models of Excitons in Carbon Nanotubes. Few-Body Systems, 2004, 34, 155.	1.5	14
92	Tuning the plasmon resonance of metallic tin nanocrystals inÂSi-based materials. Applied Physics A: Materials Science and Processing, 2010, 100, 31-37.	2.3	14
93	Variational quantum Monte Carlo study of charged excitons in fractional dimensional space. Physical Review B, 2011, 84, .	3.2	14
94	Characterisation of Au films on Si() -Au by photoemission and optical second-harmonic generation. Surface Science, 2003, 523, 21-29.	1.9	13
95	Quantum size effects in ZnO nanowires. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 4026-4030.	0.8	13
96	Analytic approach to the linear susceptibility of zigzag carbon nanotubes. Physical Review B, 2006, 74, .	3.2	13
97	Screening in graphene antidot lattices. Physical Review B, 2011, 84, .	3.2	13
98	Limitations of effective medium theory in multilayer graphite/hBN heterostructures. Physical Review B, 2016, 94, .	3.2	13
99	Stark effect in spherical quantum dots. Physical Review A, 2019, 99, .	2.5	13
100	Monolayer transition metal dichalcogenides in strong magnetic fields: Validating the Wannier model using a microscopic calculation. Physical Review B, 2019, 99, .	3.2	13
101	dc and ac Electro-optic response of chromophores in a viscoelastic polymer matrix: analytical model. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 2622.	2.1	12
102	Optical second harmonic generation from Wannier excitons. Europhysics Letters, 2007, 78, 27005.	2.0	12
103	Theoretical analysis of the Faraday effect in zigzag carbon nanotubes. Physical Review B, 2008, 77, .	3.2	12
104	Indirect near-field absorption mediated by localized surface plasmons. Physical Review B, 2011, 84, .	3.2	12
105	Nanoimprinted backside reflectors for a-Si:H thin-film solar cells: Critical role of absorber front textures. Optics Express, 2014, 22, A651.	3.4	12
106	Electro-optic response of chromophores in a viscoelastic polymer matrix to a combined dc and ac poling field. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 2179.	2.1	11
107	On localized surface plasmons of metallic tin nanoparticles in silicon. Physica Status Solidi - Rapid Research Letters, 2010, 4, 292-294.	2.4	11
108	Tight-binding parameterization of Î±-Sn quasiparticle band structure. Journal of Physics and Chemistry of Solids, 2010, 71, 18-23.	4.0	11

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109	Stark effect and polarizability of graphene quantum dots. Physical Review B, 2017, 96, .	3.2	11
110	Analytical modeling of two beam coupling during grating translation in photorefractive media. Optics Communications, 2001, 192, 377-385.	2.1	10
111	Theoretical and experimental studies of photoemission from Al quantum wells on Si(). Surface Science, 2002, 516, 127-133.	1.9	10
112	Theoretical study of conjugated porphyrin polymers. Thin Solid Films, 2005, 477, 182-186.	1.8	10
113	Optical transmission through two-dimensional arrays of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math>-Sn nanoparticles. Physical Review B, 2011, 84, .	3.2	10
114	Optical properties and size/shape dependence of Î±-Sn nanocrystals by tight binding. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 1002-1005.	0.8	10
115	Polarizability of supported metal nanoparticles: Mehler-Fock approach. Journal of Applied Physics, 2012, 112, 064312.	2.5	10
116	Opimization of imprintable nanostructured a-Si solar cells: FDTD study. Optics Express, 2013, 21, A208.	3.4	10
117	Stark effect in finite-barrier quantum wells, wires, and dots. New Journal of Physics, 2017, 19, 043011.	2.9	10
118	Anisotropic Stark shift, field-induced dissociation, and electroabsorption of excitons in phosphorene. Physical Review B, 2020, 102, .	3.2	10
119	Orientational dynamics in dye-doped organic electro-optic materials. Journal of Applied Physics, 2003, 94, 6263-6268.	2.5	9
120	Guidelines for 1D-periodic surface microstructures for antireflective lenses. Optics Express, 2010, 18, 26245.	3.4	9
121	Compact lens with circular spot profile for square die LEDs in multi-LED projectors. Applied Optics, 2011, 50, 4860.	2.1	9
122	Optical Hall conductivity in bulk and nanostructured graphene beyond the Dirac approximation. Physical Review B, 2012, 86, .	3.2	9
123	Optical absorption of amorphous silicon on anodized aluminum substrates for solar cell applications. Optics Communications, 2014, 315, 17-25.	2.1	9
124	Directly patterned TiO2 nanostructures for efficient light harvesting in thin film solar cells. Journal Physics D: Applied Physics, 2015, 48, 365101.	2.8	9
125	Magnetic edge states and magnetotransport in graphene antidot barriers. Physical Review B, 2016, 94, .	3.2	9
126	Optical emission from light-like and particle-like excitons in monolayer transition metal dichalcogenides. Physical Review B, 2021, 103, .	3.2	9

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127	Theoretical study of quadratic electro-optic effect in semiconducting zigzag carbon nanotubes. Physical Review B, 2007, 76, .	3.2	8
128	Excitonic optical response of carbon chains confined in single-walled carbon nanotubes. Physical Review B, 2017, 96, .	3.2	8
129	Magnetoexcitons and Faraday rotation in single-walled carbon nanotubes and graphene nanoribbons. Physical Review B, 2018, 97, .	3.2	8
130	Calculation of the nonlinear response functions of intraexciton transitions in two-dimensional transition metal dichalcogenides. Physical Review B, 2021, 103, .	3.2	8
131	Local field calculation for a spherical semiconductor quantum dot with parabolic confinement. Physica Scripta, 1994, T54, 115-118.	2.5	7
132	Intraparticle and interparticle radiative coupling in quantum dot arrays: influence of a magnetic field. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 2121.	2.1	7
133	Epitaxial growth of thin Ag and Au films on Si(111) using thin copper silicide buffer layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1431-1435.	2.1	7
134	Analytic expressions for linear optical susceptibilities of conjugated polymers. Physical Review B, 2003, 67, .	3.2	7
135	Nanoparticle plasmon resonances in the near-static limit. Optics Letters, 2011, 36, 713.	3.3	7
136	Clar sextets in square graphene antidot lattices. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 967-970.	2.7	7
137	Tuning Plasmon Resonances for Light Coupling into Silicon: a â€œRule of Thumbâ€•for Experimental Design. Plasmonics, 2013, 8, 79-84.	3.4	7
138	Diffractive coupling and plasmon-enhanced photocurrent generation in silicon. Optics Express, 2013, 21, A774.	3.4	7
139	Analytical models of optical response in one-dimensional semiconductors. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1785-1790.	2.1	7
140	Boron and nitrogen doping in graphene antidot lattices. Physical Review B, 2016, 93, .	3.2	7
141	Linear and nonlinear optical and spin-optical response of gapped and proximitized graphene. Physical Review B, 2018, 98, .	3.2	7
142	Optical second-harmonic generation as a probe of quantum well states in ultrathin Au and Ag films deposited on Si(111). Thin Solid Films, 2000, 364, 86-90.	1.8	6
143	Linear optical and quadratic electro-optic response of carbon nanotubes: universal analytic expressions for arbitrary chirality. Journal of Physics Condensed Matter, 2008, 20, 275211.	1.8	6
144	Er sensitization by a thin Si layer: Interaction-distance dependence. Physical Review B, 2011, 84, .	3.2	6

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145	Light trapping in guided modes of thin-film silicon-on-silver waveguides by scattering from a nanostrip. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2036.	2.1	6
146	Rapid fabrication and trimming of nanostructured backside reflectors for enhanced optical absorption in a-Si:H solar cells. Applied Physics A: Materials Science and Processing, 2015, 120, 417-425.	2.3	6
147	Graphene fractals: Energy gap and spin polarization. Physical Review B, 2020, 101, .	3.2	6
148	Theory of electron energy-loss spectroscopy in atomically thin metallic films. Physical Review Research, 2020, 2, .	3.6	6
149	Plasmons in ultra-thin gold slabs with quantum spill-out: Fourier modal method, perturbative approach, and analytical model. Optics Express, 2019, 27, 36941.	3.4	6
150	Exciton absorption, band structure, and optical emission in biased bilayer graphene. Physical Review B, 2022, 105, .	3.2	6
151	Ab initio tight-binding study of exciton optical and electro-optic properties of conjugated polymers. Computational Materials Science, 2003, 27, 123-127.	3.0	5
152	Density-functional-based tight-binding approach to polarons in conjugated polymers. Computational Materials Science, 2004, 30, 212-216.	3.0	5
153	Spectroscopic second-harmonic generation from silicon-on-insulator wafers. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 917.	2.1	5
154	Dimensional and correlation effects of charged excitons in low-dimensional semiconductors. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 474031.	2.1	5
155	Self-consistent model of edge doping in graphene. Physical Review B, 2015, 91, .	3.2	5
156	Analytical quantitative semiclassical approach to the Lo Surdoâ€"Stark effect and ionization in two-dimensional excitons. Physical Review B, 2020, 102, .	3.2	5
157	Dynamic polarizability of low-dimensional excitons. Physical Review B, 2021, 104, .	3.2	5
158	Particle-in-a-box model of exciton absorption and electroabsorption in conjugated polymers. Physical Review B, 2000, 62, 15424-15426.	3.2	4
159	Theory of second-harmonic generation from quantum well states in ultrathin metal films on semiconductors. Physical Review B, 2000, 61, 10255-10266.	3.2	4
160	Optical second-harmonic generation and photoemission from Al quantum wells on Si(111) 7Ã—7. Thin Solid Films, 2003, 443, 78-83.	1.8	4
161	Analytic Franzâ€"Keldysh effect in one-dimensional polar semiconductors. Journal of Physics Condensed Matter, 2003, 15, 3813-3819.	1.8	4
162	Surface and interface resonances in second harmonic generation from metallic quantum wells onSi(111). Physical Review B, 2006, 73, .	3.2	4

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163	Excitons on the surface of a sphere. Physical Review B, 2010, 81, .	3.2	4
164	Exact polarizability and plasmon resonances of partly buried nanowires. Optics Express, 2011, 19, 22775.	3.4	4
165	Sum rules for zeros and intersections of Bessel functions from quantum mechanical perturbation theory. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 1837-1841.	2.1	4
166	Iterative approach to arbitrary nonlinear optical response functions of graphene. Physical Review B, 2019, 99, .	3.2	4
167	Nonlinear excitonic spin Hall effect in monolayer transition metal dichalcogenides. 2D Materials, 2020, 7, 015003.	4.4	4
168	Optics of multiple grooves in metal: transition from high scattering to strong absorption. Journal of Nanophotonics, 2017, 11, 1.	1.0	4
169	Epitaxial growth of Al on Si(111) with Cu buffer layers. Surface Science, 2006, 600, 610-616.	1.9	3
170	Energy transfer from polyfluorene based polymer to europium complex. EPJ Applied Physics, 2007, 37, 57-59.	0.7	3
171	Quantized electron states in nearly depleted hexagonal nanowires. Nanotechnology, 2008, 19, 115704.	2.6	3
172	Densityâ€functional based tightâ€binding modelling of ZnO structures. Physica Status Solidi (B): Basic Research, 2009, 246, 354-360.	1.5	3
173	Polarizability of nanowires at surfaces: exact solution for general geometry. Optics Express, 2012, 20, 3663.	3.4	3
174	Optical absorption of charged excitons in semiconducting carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 936-939.	2.7	3
175	High-output LED-based light engine for profile lighting fixtures with high color uniformity using freeform reflectors. Applied Optics, 2016, 55, 1356.	2.1	3
176	Giant Stark effect in coupled quantum wells: Analytical model. Physical Review B, 2019, 100, .	3.2	3
177	Magnetoplasmon resonances in nanoparticles. Physical Review B, 2020, 102, .	3.2	3
178	Finiteâ€Difference Timeâ€Domain Simulation of Strongâ€Field Ionization: A Perfectly Matched Layer Approach. Physica Status Solidi (B): Basic Research, 2020, 257, 1900467.	1.5	3
179	Plasmons and magnetoplasmon resonances in nanorings. Physical Review B, 2021, 103, .	3.2	3
180	Mean-field theory of optical storage in liquid crystalline side-chain polymers. Optical Materials, 1998, 9, 212-215.	3.6	2

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181	Cascading solution of the space-charge field problem in ac field biased photorefractive media. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1168.	2.1	2
182	Optical Second-Harmonic Generation from an Au Wedge on Si(111). Physica Status Solidi A, 1999, 175, 195-200.	1.7	2
183	Description of the photorefractive response in polymers. Optics Letters, 2001, 26, 226.	3.3	2
184	Rotational diffusion model of orientational enhancement in AC field biased photorefractive polymers. Optical Materials, 2001, 18, 95-98.	3.6	2
185	Density-functional-based tight-binding approach to phonon spectra of conjugated polymers. Physica Status Solidi (B): Basic Research, 2004, 241, 1005-1016.	1.5	2
186	Optical excitations in C60/PPV composites. Journal of Non-Crystalline Solids, 2006, 352, 2488-2491.	3.1	2
187	Modelling amorphous silicon with hydrogenated defects: GW treatment of the ST12 phase. Journal of Physics Condensed Matter, 2012, 24, 325803.	1.8	2
188	Linear and nonlinear optical response of one-dimensional semiconductors: finite-size and Franzâ€"Keldysh effects. Journal of Physics Condensed Matter, 2017, 29, 165702.	1.8	2
189	Franz-Keldysh effect and electric field-induced second harmonic generation in graphene: From one-dimensional nanoribbons to two-dimensional sheet. Physical Review B, 2019, 99, .	3.2	2
190	Hypergeometric resummation approach to dissociation and Stark effect in non-rigid dipolar molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 175101.	1.5	2
191	Plasmon enhanced light scattering into semiconductors by aperiodic metal nanowire arrays. Optics Express, 2019, 27, 14308.	3.4	2
192	On the Two-Dimensional Quantum Confined Stark Effect in Strong Electric Fields. SIAM Journal on Mathematical Analysis, 2022, 54, 2114-2127.	1.9	2
193	Thin noble metal films on Siâ€‰(111) investigated by optical second-harmonic generation and photoemission. Applied Physics B: Lasers and Optics, 2002, 74, 677-682.	2.2	1
194	Self-consistent model of high-field electro-optics in conjugated polymers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 563-566.	3.5	1
195	Analytic and numerical electro-optic models of poly(para-phenylene). Synthetic Metals, 2003, 138, 329-332.	3.9	1
196	Applicability of stretched exponential functions for describing dynamics in disordered solid materials. , 2004, 5521, 181.		1
197	Biexcitons in Carbon Nanotubes. Fullerenes Nanotubes and Carbon Nanostructures, 2005, 13, 33-39.	2.1	1
198	Second harmonic generation in carbon nanotubes induced by transversal electrostatic field. Journal of Physics Condensed Matter, 2013, 25, 325301.	1.8	1

#	ARTICLE	IF	CITATIONS
199	Excitonic lifetimes and optical response of carbon nanotubes modulated by electrostatic gating. Physical Review B, 2015, 92, .	3.2	1
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207	Diffusion voltage in polymer light emitting diodes measured with electric field induced second harmonic generation. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 3993-3996.	0.8	0
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215	Efficient ionization of two-dimensional excitons by intense single-cycle terahertz pulses. Physical Review B, 2021, 104, .	3.2	0