

Peter A Bobbert

List of Publications by Year in descending order

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173
papers

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46918

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177
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Unified Description of Charge-Carrier Mobilities in Disordered Semiconducting Polymers. <i>Physical Review Letters</i> , 2005, 94, 206601.	2.9	836
2	Bipolaron Mechanism for Organic Magnetoresistance. <i>Physical Review Letters</i> , 2007, 99, 216801.	2.9	424
3	Charge-carrier concentration dependence of the hopping mobility in organic materials with Gaussian disorder. <i>Physical Review B</i> , 2005, 72, .	1.1	381
4	Light scattering by a sphere on a substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 137, 209-242.	1.2	259
5	Theory of polaron bandwidth narrowing in organic molecular crystals. <i>Physical Review B</i> , 2004, 69, .	1.1	253
6	Interstitial Occupancy by Extrinsic Alkali Cations in Perovskites and Its Impact on Ion Migration. <i>Advanced Materials</i> , 2018, 30, e1707350.	11.1	233
7	Dynamics of Threshold Voltage Shifts in Organic and Amorphous Silicon Field-Effect Transistors. <i>Advanced Materials</i> , 2007, 19, 2785-2789.	11.1	223
8	Operational Stability of Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2012, 24, 1146-1158.	11.1	213
9	Ab initio theory of charge-carrier conduction in ultrapure organic crystals. <i>Applied Physics Letters</i> , 2004, 85, 1535-1537.	1.5	171
10	Theory for Spin Diffusion in Disordered Organic Semiconductors. <i>Physical Review Letters</i> , 2009, 102, 156604.	2.9	167
11	Carrier-density and field-dependent charge-carrier mobility in organic semiconductors with correlated Gaussian disorder. <i>Organic Electronics</i> , 2009, 10, 437-445.	1.4	150
12	Molecular-scale simulation of electroluminescence in a multilayer white organic light-emitting diode. <i>Nature Materials</i> , 2013, 12, 652-658.	13.3	146
13	Ab Initio Calculation of the Electronic and Optical Excitations in Polythiophene: Effects of Intra- and Interchain Screening. <i>Physical Review Letters</i> , 1999, 83, 4413-4416.	2.9	142
14	Charge Trapping at the Dielectric of Organic Transistors Visualized in Real Time and Space. <i>Advanced Materials</i> , 2008, 20, 975-979.	11.1	141
15	Coulomb-blockade transport in single-crystal organic thin-film transistors. <i>Nature</i> , 2000, 404, 977-980.	13.7	134
16	CaB6: A New Semiconducting Material for Spin Electronics. <i>Physical Review Letters</i> , 2001, 87, 016401.	2.9	133
17	Accurate and efficient band gap predictions of metal halide perovskites using the DFT-1/2 method: GW accuracy with DFT expense. <i>Scientific Reports</i> , 2017, 7, 14386.	1.6	125
18	Monolayer coverage and channel length set the mobility in self-assembled monolayer field-effect transistors. <i>Nature Nanotechnology</i> , 2009, 4, 674-680.	15.6	121

#	ARTICLE	IF	CITATIONS
19	Microscopic modeling of magnetic-field effects on charge transport in organic semiconductors. <i>Physical Review B</i> , 2011, 84, .	1.1	118
20	Anisotropy effects in phonon-assisted charge-carrier transport in organic molecular crystals. <i>Physical Review B</i> , 2004, 69, .	1.1	117
21	Calculation of excitonic properties of conjugated polymers using the Bethe-Salpeter equation. <i>Journal of Chemical Physics</i> , 2001, 114, 6950-6957.	1.2	114
22	Magnetic-Field Dependence of the Electroluminescence of Organic Light-Emitting Diodes: A Competition between Exciton Formation and Spin Mixing. <i>Physical Review Letters</i> , 2011, 106, 197402.	2.9	106
23	Modeling and analysis of the three-dimensional current density in sandwich-type single-carrier devices of disordered organic semiconductors. <i>Physical Review B</i> , 2009, 79, .	1.1	105
24	Scaling Theory for Percolative Charge Transport in Disordered Molecular Semiconductors. <i>Physical Review Letters</i> , 2011, 107, 136601.	2.9	101
25	Effects of Gaussian disorder on charge carrier transport and recombination in organic semiconductors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2354-2377.	0.8	95
26	Magnetoresistance in Hybrid Organic Spin Valves at the Onset of Multiple-Step Tunneling. <i>Physical Review Letters</i> , 2009, 103, 146601.	2.9	91
27	Monte Carlo study of charge transport in organic sandwich-type single-carrier devices: Effects of Coulomb interactions. <i>Physical Review B</i> , 2011, 83, .	1.1	88
28	Ultrahigh Magnetoresistance at Room Temperature in Molecular Wires. <i>Science</i> , 2013, 341, 257-260.	6.0	87
29	Kinetic Monte Carlo Study of the Sensitivity of OLED Efficiency and Lifetime to Materials Parameters. <i>Advanced Functional Materials</i> , 2015, 25, 2024-2037.	7.8	81
30	Electron-hole recombination in disordered organic semiconductors: Validity of the Langevin formula. <i>Physical Review B</i> , 2009, 80, .	1.1	80
31	Diffusion to a slowly growing truncated sphere on a substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 141, 58-72.	1.2	79
32	Monte Carlo study of efficiency roll-off of phosphorescent organic light-emitting diodes: Evidence for dominant role of triplet-polaron quenching. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	77
33	Parameter-Free Quasiparticle Calculations for YH ₃ . <i>Physical Review Letters</i> , 2000, 85, 2989-2992.	2.9	72
34	Unified theory for light-induced halide segregation in mixed halide perovskites. <i>Nature Communications</i> , 2021, 12, 2687.	5.8	70
35	Light reflection from a substrate sparsely seeded with spheres - comparison with an ellipsometric experiment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1986, 137, 243-257.	1.2	68
36	Stabilizing Lead-Free All-Inorganic Tin Halide Perovskites by Ion Exchange. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17660-17667.	1.5	68

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37	Coherent Cooper pair tunneling in systems of Josephson junctions: Effects of quasiparticle tunneling and of the electromagnetic environment. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1991, 85, 459-467.	1.1	65
38	The polarizability of a spheroidal particle on a substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 147, 115-141.	1.2	64
39	A two-site bipolaron model for organic magnetoresistance. <i>Journal of Applied Physics</i> , 2008, 103, 07F303.	1.1	63
40	The polarizability of a truncated sphere on a substrate II. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 143, 164-182.	1.2	60
41	Effect of Triplet Confinement on Triplet Annihilation in Organic Phosphorescent Host-Guest Systems. <i>Advanced Functional Materials</i> , 2018, 28, 1804618.	7.8	60
42	Calculating charge-carrier mobilities in disordered semiconducting polymers: Mean field and beyond. <i>Physical Review B</i> , 2006, 74, .	1.1	53
43	Classification with a disordered dopant-atom network in silicon. <i>Nature</i> , 2020, 577, 341-345.	13.7	53
44	Proton migration mechanism for the instability of organic field-effect transistors. <i>Applied Physics Letters</i> , 2009, 95, 253305.	1.5	52
45	High leptin and resistin expression in chronic heart failure: adverse outcome in patients with dilated and inflammatory cardiomyopathy. <i>European Journal of Heart Failure</i> , 2012, 14, 1265-1275.	2.9	52
46	Proton migration mechanism for operational instabilities in organic field-effect transistors. <i>Physical Review B</i> , 2010, 82, .	1.1	48
47	Modeling of the transient mobility in disordered organic semiconductors with a Gaussian density of states. <i>Physical Review B</i> , 2011, 84, .	1.1	48
48	Diffusion to an assembly of slowly growing particles on a substrate. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1987, 146, 69-88.	1.2	47
49	Energy-band structure of SiC polytypes by interface matching of electronic wave functions. <i>Physical Review B</i> , 1994, 49, 7564-7568.	1.1	47
50	Ab initio prediction of the electronic and optical excitations in polythiophene: Isolated chains versus bulk polymer. <i>Physical Review B</i> , 2000, 61, 15817-15826.	1.1	47
51	Phase transitions in dissipative Josephson chains: Monte Carlo results and response functions. <i>Physical Review B</i> , 1992, 45, 2294-2304.	1.1	46
52	Ab initio charge-carrier mobility model for amorphous molecular semiconductors. <i>Physical Review B</i> , 2016, 93, .	1.1	46
53	Two-dimensional electron-hole capture in a disordered hopping system. <i>Physical Review B</i> , 2003, 68, .	1.1	45
54	THE MANY FACES OF ORGANIC MAGNETORESISTANCE. <i>Spin</i> , 2011, 01, 93-108.	0.6	44

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55	On the Band Gap Variation in SiC Polytypes. <i>Physica Status Solidi (B): Basic Research</i> , 1997, 202, 63-79.	0.7	43
56	On the correlation function of 1/f noise. <i>Physica B: Condensed Matter</i> , 1997, 239, 223-230.	1.3	42
57	Spin-Spin Interactions in Organic Magnetoresistance Probed by Angle-Dependent Measurements. <i>Physical Review Letters</i> , 2011, 106, 196802.	2.9	42
58	Dimensionality of charge transport in organic field-effect transistors. <i>Physical Review B</i> , 2012, 85, .	1.1	42
59	Charge Transport by Superexchange in Molecular Host-Guest Systems. <i>Physical Review Letters</i> , 2016, 117, 276803.	2.9	41
60	A deep-learning approach to realizing functionality in nanoelectronic devices. <i>Nature Nanotechnology</i> , 2020, 15, 992-998.	15.6	41
61	Effect of Förster-mediated triplet-polaron quenching and triplet-triplet annihilation on the efficiency roll-off of organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	38
62	Polarons in semiconducting polymers: Study within an extended Holstein model. <i>Physical Review B</i> , 2005, 71, .	1.1	37
63	Scanning Kelvin probe microscopy on organic field-effect transistors during gate bias stress. <i>Applied Physics Letters</i> , 2007, 90, 192104.	1.5	35
64	Increased plasma retinol binding protein 4 levels in patients with inflammatory cardiomyopathy. <i>European Journal of Heart Failure</i> , 2009, 11, 1163-1168.	2.9	35
65	Spin relaxation and magnetoresistance in disordered organic semiconductors. <i>Synthetic Metals</i> , 2010, 160, 223-229.	2.1	35
66	Modeling carrier density dependent charge transport in semiconducting carbon nanotube networks. <i>Physical Review Materials</i> , 2017, 1, .	0.9	35
67	Simulating Phase Separation during Spin Coating of a Polymer–Fullerene Blend: A Joint Computational and Experimental Investigation. <i>ACS Applied Energy Materials</i> , 2018, 1, 725-735.	2.5	34
68	Self-consistent GW for a quasi-one-dimensional semiconductor. <i>Physical Review B</i> , 1995, 52, 11000-11007.	1.1	33
69	Unified description of potential profiles and electrical transport in unipolar and ambipolar organic field-effect transistors. <i>Physical Review B</i> , 2007, 76, .	1.1	33
70	Effects of energy correlations and superexchange on charge transport and exciton formation in amorphous molecular semiconductors: An <i>ab initio</i> study. <i>Physical Review B</i> , 2017, 95, .	1.1	33
71	Phase transitions in dissipative Josephson chains. <i>Physical Review B</i> , 1990, 41, 4009-4016.	1.1	32
72	Scaling theory for percolative charge transport in molecular semiconductors: Correlated versus uncorrelated energetic disorder. <i>Physical Review B</i> , 2012, 85, .	1.1	32

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73	Effect of polaron diffusion on exciton-polaron quenching in disordered organic semiconductors. <i>Physical Review B</i> , 2017, 95, .	1.1	32
74	Parameter-free calculation of single-particle electronic excitations in YH ₃ . <i>Physical Review B</i> , 2002, 66, .	1.1	31
75	Kinetic Monte Carlo study of triplet-triplet annihilation in organic phosphorescent emitters. <i>Journal of Applied Physics</i> , 2015, 117, .	1.1	31
76	Full quantum treatment of charge dynamics in amorphous molecular semiconductors. <i>Physical Review B</i> , 2018, 97, .	1.1	31
77	Simulation of vortex motion in underdamped two-dimensional arrays of Josephson junctions. <i>Physical Review B</i> , 1992, 45, 7540-7543.	1.1	30
78	What makes the spin relax?. <i>Nature Materials</i> , 2010, 9, 288-290.	13.3	30
79	Spin in organics: a new route to spintronics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 3602-3616.	1.6	30
80	Ballistic Phonons in Ultrathin Nanowires. <i>Nano Letters</i> , 2020, 20, 2703-2709.	4.5	30
81	Exchange-correlation energy of a hole gas including valence band coupling. <i>Physical Review B</i> , 1997, 56, 3664-3671.	1.1	29
82	Charge-carrier mobilities in disordered semiconducting polymers: effects of carrier density and electric field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006, 3, 267-270.	0.8	29
83	Charge transport in disordered organic host-guest systems: effects of carrier density and electric field. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 335204.	0.7	29
84	Effect of Coulomb correlation on charge transport in disordered organic semiconductors. <i>Physical Review B</i> , 2017, 96, .	1.1	29
85	Predicting polarizabilities and lifetimes of excitons on conjugated polymer chains. <i>Chemical Physics Letters</i> , 2001, 334, 303-308.	1.2	28
86	Extreme Sensitivity of Circular Dichroism to Long-Range Excitonic Couplings in Helical Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2010, 114, 817-825.	1.2	28
87	Lowest-order vertex-correction contribution to the direct gap of silicon. <i>Physical Review B</i> , 1994, 49, 10326-10331.	1.1	26
88	Spatially Resolved STM Spectroscopy of Charge Injection at the Ladder-Type Poly(para-phenylene)/Au(111) Interface. <i>Advanced Functional Materials</i> , 2002, 12, 117-122.	7.8	26
89	Nonlocal electron-phonon coupling: Consequences for the nature of polaron states. <i>Physical Review B</i> , 2004, 69, .	1.1	26
90	Universal Size-Dependent Conductance Fluctuations in Disordered Organic Semiconductors. <i>Physical Review Letters</i> , 2014, 113, 116604.	2.9	26

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91	Effect of Light-Induced Halide Segregation on the Performance of Mixed-Halide Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6650-6658.	2.5	26
92	First-order corrections to random-phase approximation GW calculations in silicon and diamond. Physical Review B, 1998, 57, 11962-11973.	1.1	25
93	Anomalous current transients in organic field-effect transistors. Applied Physics Letters, 2010, 96, 103306.	1.5	25
94	Clarifying the mechanism of triplet-triplet annihilation in phosphorescent organic host-guest systems: A combined experimental and simulation study. Chemical Physics Letters, 2016, 652, 142-147.	1.2	25
95	Route towards huge magnetoresistance in doped polymers. Physical Review B, 2012, 86, .	1.1	24
96	Large magnetic field effects in electrochemically doped organic light-emitting diodes. Physical Review B, 2013, 88, .	1.1	24
97	Plasmon and quasiparticle band structures in \hat{I}^2 -SiC. Physical Review B, 1995, 51, 4950-4952.	1.1	23
98	Electronic and optical excitations in crystalline conjugated polymers. Physical Review B, 2002, 66, .	1.1	22
99	Globular adiponectin but not full-length adiponectin induces increased procoagulability in human endothelial cells. Journal of Molecular and Cellular Cardiology, 2008, 44, 388-394.	0.9	22
100	Postmenopausal women have an increased maximal platelet reactivity compared to men despite dual antiplatelet therapy. Blood Coagulation and Fibrinolysis, 2012, 23, 723-728.	0.5	22
101	Optical properties of square lattices of gold nanoparticles. Scripta Materialia, 1999, 12, 725-730.	0.5	21
102	Förster-type triplet-polaron quenching in disordered organic semiconductors. Physical Review B, 2017, 96, .	1.1	20
103	Field-induced detrapping in disordered organic semiconducting host-guest systems. Physical Review B, 2010, 82, .	1.1	19
104	Optical properties of 2D-systems of small particles on a substrate. Physica A: Statistical Mechanics and Its Applications, 1989, 157, 269-278.	1.2	18
105	A note on temperature-dependent band narrowing in oligo-acene crystals. Journal of Physics Condensed Matter, 2004, 16, 2023-2032.	0.7	18
106	Universality of AC conductivity: Random site-energy model with Fermi statistics. Physical Review B, 2006, 74, .	1.1	18
107	Analysis of the phosphorescent dye concentration dependence of triplet-triplet annihilation in organic host-guest systems. Chemical Physics Letters, 2016, 662, 221-227.	1.2	18
108	Equilibrated Charge Carrier Populations Govern Steady-State Nongeminate Recombination in Disordered Organic Solar Cells. Journal of Physical Chemistry Letters, 2019, 10, 1374-1381.	2.1	18

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109	Effect of exciton diffusion on the triplet-triplet annihilation rate in organic semiconductor host-guest systems. <i>Physical Review B</i> , 2019, 99, .	1.1	18
110	Effect of Coulomb scattering from trapped charges on the mobility in an organic field-effect transistor. <i>Physical Review B</i> , 2011, 83, .	1.1	17
111	Triplet exciton diffusion in metalorganic phosphorescent host-guest systems from first principles. <i>Physical Review B</i> , 2019, 99, .	1.1	17
112	Ab initio quasiparticle energies in 2H, 4H, and 6H SiC. <i>Physical Review B</i> , 1998, 58, 6795-6799.	1.1	16
113	Modeling of charge transport across disordered organic heterojunctions. <i>Organic Electronics</i> , 2012, 13, 667-672.	1.4	16
114	Molecular dynamics simulation of poly(3-hexylthiophene) helical structure <i>in vacuo</i> and in amorphous polymer surrounding. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 2448-2456.	2.4	16
115	High energy acceptor states strongly enhance exciton transfer between metal organic phosphorescent dyes. <i>Nature Communications</i> , 2020, 11, 1292.	5.8	16
116	Lowest-order corrections to the RPA polarizability and GW self-energy of a semiconducting wire. <i>Physical Review B</i> , 1996, 54, 2374-2380.	1.1	14
117	Scaling of current distributions in variable-range hopping transport on two- and three-dimensional lattices. <i>Physical Review B</i> , 2005, 72, .	1.1	14
118	Study of charge-carrier relaxation in a disordered organic semiconductor by simulating impedance spectroscopy. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	14
119	Kinetic Monte Carlo modeling of the efficiency roll-off in a multilayer white organic light-emitting device. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	14
120	1/f Noise and Machine Intelligence in a Nonlinear Dopant Atom Network. <i>Small Science</i> , 2021, 1, 2000014.	5.8	14
121	Charge-carrier relaxation in disordered organic semiconductors studied by dark injection: Experiment and modeling. <i>Physical Review B</i> , 2013, 88, .	1.1	13
122	Platelet activation and thrombus formation relates to the presence of myocardial inflammation in patients with cardiomyopathy. <i>Journal of Cardiology</i> , 2014, 63, 379-384.	0.8	13
123	Solvent-Dependent Structure Formation in Drying P3HT:PCBM Films Studied by Molecular Dynamics Simulations. <i>Macromolecular Theory and Simulations</i> , 2016, 25, 550-558.	0.6	13
124	Optical Spectra and Stokes Shift in Double-Stranded Helical Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2009, 113, 9708-9717.	1.2	12
125	Leptin and resistin induce increased procoagulability in diabetes mellitus. <i>Cytokine</i> , 2011, 56, 332-337.	1.4	12
126	Influence of the semiconductor oxidation potential on the operational stability of organic field-effect transistors. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	12

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127	<i>Ab initio</i> modeling of steady-state and time-dependent charge transport in hole-only Ir^{III} -NPD devices. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	12
128	Diadenosine polyphosphates Ap3A and Ap4A, but not Ap5A or Ap6A, induce proliferation of vascular smooth muscle cells. <i>Biochemical Pharmacology</i> , 2008, 75, 1966-1973.	2.0	11
129	Three-Dimensional Modeling of Bipolar Charge-Carrier Transport and Recombination in Disordered Organic Semiconductor Devices at Low Voltages. <i>Physical Review Applied</i> , 2018, 10, .	1.5	11
130	<i>Ab initio</i> study of energy-level alignments in polymer-dye blends. <i>Chemical Physics Letters</i> , 2003, 381, 392-396.	1.2	10
131	Temperature, charge carrier density, and electric field dependence of mobilities in disordered conjugated polymers: simulation results. <i>Synthetic Metals</i> , 2005, 152, 157-160.	2.1	10
132	Charge transport in disordered organic host-guest systems: Effects of carrier density and electric field. <i>Synthetic Metals</i> , 2009, 159, 2399-2401.	2.1	10
133	Many-particle effects in $\text{Be}^{\delta-}$ -doped $\text{GaAs}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ quantum wells. <i>Physical Review B</i> , 1998, 58, 1424-1435.	1.1	9
134	Intrinsic magnetic field effects in organic semiconductors. <i>MRS Bulletin</i> , 2014, 39, 590-595.	1.7	9
135	Charge transport in nanoscale vertical organic semiconductor pillar devices. <i>Scientific Reports</i> , 2017, 7, 41171.	1.6	9
136	Short-Channel Vertical Organic Field-Effect Transistors with High On/Off Ratios. <i>Advanced Electronic Materials</i> , 2019, 5, 1900041.	2.6	9
137	Diameter-dependent thermal conductivity of ultrathin GaP nanowires: A molecular dynamics study. <i>Physical Review B</i> , 2020, 101, .	1.1	9
138	<i>Ab-initio</i> calculation of quasi-particle bandstructure, exciton binding energies and dielectric properties of polythiophene. <i>Synthetic Metals</i> , 1999, 101, 333-334.	2.1	8
139	Publisher's Note: Modeling and analysis of the three-dimensional current density in sandwich-type single-carrier devices of disordered organic semiconductors [<i>Phys. Rev. B</i> 79, 085203 (2009)]. <i>Physical Review B</i> , 2009, 79, .	1.1	8
140	Quantitative predictions of photoelectron spectra in amorphous molecular solids from multiscale quasiparticle embedding. <i>Physical Review B</i> , 2020, 101, .	1.1	8
141	The polarizability of truncated spheres and oblate spheroids on a substrate: Comparison with experimental results. <i>Thin Solid Films</i> , 1988, 164, 57-62.	0.8	7
142	Temperature and field dependence of the mobility in 1D for a Gaussian density of states. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 164-167.	0.8	7
143	<i>Ab-Initio</i> Theory of Charge Transport in Organic Crystals. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	7
144	Photoluminescence Spectra of Self-Assembling Helical Supramolecular Assemblies: A Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12386-12393.	1.2	7

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145	Theory of exciton dynamics in molecular aggregates in presence of polaronic effects. <i>Chemical Physics Letters</i> , 2012, 529, 69-73.	1.2	7
146	Manipulating spin in organic spintronics. <i>Science</i> , 2014, 345, 1450-1451.	6.0	7
147	Inhibition of platelet function with clopidogrel is associated with a reduction of inflammation in patients with peripheral artery disease. <i>Cardiovascular Revascularization Medicine</i> , 2016, 17, 169-175.	0.3	7
148	Fabrication, electrical characterization and device simulation of vertical P3HT field-effect transistors. <i>Journal of Science: Advanced Materials and Devices</i> , 2017, 2, 501-514.	1.5	7
149	Theory of light reflection from a substrate sparsely seeded with spheres: Comparison with an ellipsometric experiment. <i>Thin Solid Films</i> , 1988, 164, 63-67.	0.8	6
150	Excitons in conjugated polymers from first principles. <i>Computer Physics Communications</i> , 2002, 147, 331-334.	3.0	6
151	Nonperturbative theory of exciton-phonon resonances in semiconductor absorption. <i>Physical Review B</i> , 2005, 72, .	1.1	6
152	Many-body solid-state methods for the calculation of the electronic and optical properties of conjugated polymers. <i>Synthetic Metals</i> , 2001, 119, 209-210.	2.1	4
153	Structure and conductivity of clusters generated by variable-range hopping percolation. <i>Physical Review B</i> , 2006, 73, .	1.1	4
154	Effect of hyperfine interactions on exciton formation in organic semiconductors. <i>Synthetic Metals</i> , 2011, 161, 613-616.	2.1	4
155	Single-layer method for quantifying the triplet exciton diffusion coefficient in disordered organic semiconductor materials. <i>Organic Electronics</i> , 2020, 77, 105510.	1.4	4
156	Effects of exciton deconfinement on the transient photoluminescence from thermally activated delayed fluorescence host-guest systems. <i>Journal of Applied Physics</i> , 2020, 128, 075501.	1.1	4
157	Theory of bandwidth narrowing in oligo-acene crystals. <i>Synthetic Metals</i> , 2003, 137, 891-892.	2.1	3
158	Nonlocal electron-phonon coupling: influence on the nature of polarons. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 172-175.	0.8	3
159	Mechanistic description of the efficiency loss in organic phosphorescent host-guest systems due to triplet-polaron quenching. <i>Organic Electronics</i> , 2021, 91, 106058.	1.4	3
160	Image-Force-Stabilized Interfacial Dipole Layer Impedes Charge Injection Into Disordered Organic Semiconductors. <i>Physical Review Applied</i> , 2022, 17, .	1.5	3
161	Kronig-Penney-like description for band gap variation in SiC polytypes. <i>Physica B: Condensed Matter</i> , 1996, 217, 207-211.	1.3	2
162	Density Functional Theory for Holes in Semiconductors. <i>Physical Review Letters</i> , 1998, 80, 3159-3159.	2.9	2

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163	Accurate and efficient band gap predictions of metal halide perovskites using the DFT-1/2 method: GW accuracy with DFT expense. , 0, , .		2
164	Hopping-Transport Mechanism for Reconfigurable Logic in Disordered Dopant Networks. Physical Review Applied, 2022, 17, .	1.5	2
165	Accurate and fast master equation modeling of triplet-triplet annihilation in organic phosphorescent emission layers including correlations. Physical Review B, 2022, 105, .	1.1	1
166	Quantum Monte Carlo simulation of a dissipative chain of Josephson junctions. Physica B: Condensed Matter, 1991, 169, 701-702.	1.3	0
167	Theoretical study of fluorescence of self-assembling helical supramolecular aggregates. Synthetic Metals, 2009, 159, 2384-2386.	2.1	0
168	Bias stress effect and recovery in organic field effect transistors: proton migration mechanism. Proceedings of SPIE, 2010, , .	0.8	0
169	Publisher's Note: Modeling of the transient mobility in disordered organic semiconductors with a Gaussian density of states [Phys. Rev. B84, 165210 (2011)]. Physical Review B, 2011, 84, .	1.1	0
170	Is there more than meets the eye?. Nature Nanotechnology, 2013, 8, 887-887.	15.6	0
171	Kinetic Monte Carlo simulation of the efficiency roll-off, emission color, and degradation of organic light-emitting diodes (Presentation Recording). , 2015, , .		0
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