

Laurens D A Siebbeles

List of Publications by Year in descending order

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Photoluminescence and Conductivity of Self-Assembled π - π Stacks of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2007, 13, 436-449.	3.3	552
2	Charge Transport Properties in Discotic Liquid Crystals: A Quantum-Chemical Insight into Structure-Property Relationships. <i>Journal of the American Chemical Society</i> , 2004, 126, 3271-3279.	13.7	464
3	Charge transport in columnar stacked triphenylenes: Effects of conformational fluctuations on charge transfer integrals and site energies. <i>Journal of Chemical Physics</i> , 2003, 119, 9809-9817.	3.0	395
4	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017, 356, 69-73.	12.6	391
5	Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. <i>Science</i> , 2014, 344, 1377-1380.	12.6	343
6	Absolute Rates of Hole Transfer in DNA. <i>Journal of the American Chemical Society</i> , 2005, 127, 14894-14903.	13.7	325
7	Photogeneration and Ultrafast Dynamics of Excitons and Charges in P3HT/PCBM Blends. <i>Journal of Physical Chemistry C</i> , 2009, 113, 14500-14506.	3.1	304
8	High Electron Mobility in Room-Temperature Discotic Liquid-Crystalline Perylene Diimides. <i>Advanced Materials</i> , 2005, 17, 2580-2583.	21.0	300
9	Highly mobile electrons and holes on isolated chains of the semiconducting polymer poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Ove 27.8 295	27.8	295
10	In Spite of Recent Doubts Carrier Multiplication Does Occur in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 1713-1718.	9.1	291
11	Mechanism of Charge Migration through DNA: A Molecular Wire Behavior, Single-Step Tunneling or Hopping?. <i>Journal of the American Chemical Society</i> , 2000, 122, 10903-10909.	13.7	211
12	In situ study of the formation mechanism of two-dimensional superlattices from PbSe nanocrystals. <i>Nature Materials</i> , 2016, 15, 1248-1254.	27.5	199
13	Mechanism of charge transport in self-organizing organic materials. <i>International Reviews in Physical Chemistry</i> , 2008, 27, 87-138.	2.3	194
14	Intramolecular Charge Transport along Isolated Chains of Conjugated Polymers: Effect of Torsional Disorder and Polymerization Defects. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7791-7795.	2.6	186
15	Efficiency of Exciton and Charge Carrier Photogeneration in a Semiconducting Polymer. <i>Physical Review Letters</i> , 2004, 92, 196601.	7.8	183
16	High Intrachain Hole Mobility on Molecular Wires of Ladder-Type Poly(p-Phenylenes). <i>Physical Review Letters</i> , 2006, 96, 146601.	7.8	181
17	Direct generation of multiple excitons in adjacent silicon nanocrystals revealed by induced absorption. <i>Nature Photonics</i> , 2012, 6, 316-321.	31.4	173
18	Vector properties in photodissociation: Quantum treatment of the correlation between the spatial anisotropy and the angular momentum polarization of the fragments. <i>Journal of Chemical Physics</i> , 1994, 100, 3610-3623.	3.0	169

#	ARTICLE	IF	CITATIONS
19	Hole Conduction along Molecular Wires: σ -Bonded Silicon Versus π -Bond-Conjugated Carbon. <i>Advanced Materials</i> , 2002, 14, 228-231.	21.0	167
20	Unity quantum yield of photogenerated charges and band-like transport in quantum-dot solids. <i>Nature Nanotechnology</i> , 2011, 6, 733-739.	31.5	164
21	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. <i>Chemical Communications</i> , 2006, , 3871-3873.	4.1	154
22	Effect of Structural Dynamics on Charge Transfer in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2008, 130, 5157-5166.	13.7	148
23	Electrodeless time-resolved microwave conductivity study of charge-carrier photogeneration in regioregular poly(3-hexylthiophene) thin films. <i>Physical Review B</i> , 2004, 70, .	3.2	147
24	Bimolecular Auger Recombination of Electron-Hole Pairs in Two-Dimensional CdSe and CdSe/CdZnS Core/Shell Nanoplatelets. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3574-3578.	4.6	146
25	Helical Growth of Semiconducting Columnar Dye Assemblies Based on Chiral Perylene Bisimides. <i>Organic Letters</i> , 2007, 9, 1085-1088.	4.6	145
26	H-Bond-Stabilized Triphenylene-Based Columnar Discotic Liquid Crystals. <i>Chemistry of Materials</i> , 2006, 18, 968-974.	6.7	141
27	Temperature-Resolved Local and Macroscopic Charge Carrier Transport in Thin P3HT Layers. <i>Advanced Functional Materials</i> , 2010, 20, 2286-2295.	14.9	131
28	High charge mobility in two-dimensional percolative networks of PbSe quantum dots connected by atomic bonds. <i>Nature Communications</i> , 2015, 6, 8195.	12.8	125
29	Nature and Decay Pathways of Photoexcited States in CdSe and CdSe/CdS Nanoplatelets. <i>Nano Letters</i> , 2014, 14, 7039-7045.	9.1	122
30	Radiative and Nonradiative Recombination in CuInS_2 Nanocrystals and CuInS_2 -Based Core/Shell Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3503-3509.	4.6	119
31	Charge Transfer in Donor-Bridge-Acceptor Systems: Static Disorder, Dynamic Fluctuations, and Complex Kinetics. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10988-11000.	3.1	114
32	Epitaxially Connected PbSe Quantum-Dot Films: Controlled Neck Formation and Optoelectronic Properties. <i>ACS Nano</i> , 2014, 8, 11499-11511.	14.6	114
33	Photoconductivity of PbSe Quantum-Dot Solids: Dependence on Ligand Anchor Group and Length. <i>ACS Nano</i> , 2012, 6, 9606-9614.	14.6	113
34	Hole Mobility in DNA: Effects of Static and Dynamic Structural Fluctuations. <i>ChemPhysChem</i> , 2002, 3, 536.	2.1	112
35	Highly efficient carrier multiplication in PbS nanosheets. <i>Nature Communications</i> , 2014, 5, 3789.	12.8	109
36	Temperature-Independent Charge Carrier Photogeneration in P3HT \sim PCBM Blends with Different Morphology. <i>Journal of Physical Chemistry C</i> , 2010, 114, 5182-5186.	3.1	105

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37	Efficient carrier multiplication in CsPbI ₃ perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4199.	12.8	101
38	Unraveling the Optoelectronic and Photochemical Behavior of Zn ₄ O-Based Metal Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12487-12493.	3.1	98
39	Mapping the Sites for Selective Oxidation of Guanines in DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 13658-13659.	13.7	97
40	Excited state polarizabilities of conjugated molecules calculated using time dependent density functional theory. <i>Journal of Chemical Physics</i> , 2001, 115, 10014-10021.	3.0	94
41	Supramolecular Control of Charge Transport in Molecular Wires. <i>Journal of the American Chemical Society</i> , 2007, 129, 13370-13371.	13.7	94
42	Charge Transport in Self-Organized π -Stacks of p-Phenylene Vinylene Oligomers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18267-18274.	2.6	90
43	Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6378-6382.	13.8	88
44	Effect of the Particle Size on the Electron Injection Efficiency in Dye-Sensitized Nanocrystalline TiO ₂ Films Studied by Time-Resolved Microwave Conductivity (TRMC) Measurements. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10741-10746.	3.1	87
45	Density of Trap States and Auger-mediated Electron Trapping in CdTe Quantum-Dot Solids. <i>Nano Letters</i> , 2015, 15, 3056-3066.	9.1	84
46	Organic Linker Defines the Excited State Decay of Photocatalytic MIL-125(Ti)-Type Materials. <i>ChemSusChem</i> , 2016, 9, 388-395.	6.8	84
47	Mechanism of Charge Transport along Columnar Stacks of a Triphenylene Dimer. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9625-9634.	2.6	77
48	Mechanism of Mobile Charge Carrier Generation in Blends of Conjugated Polymers and Fullerenes: Significance of Charge Delocalization and Excess Free Energy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9214-9220.	3.1	77
49	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. <i>Advanced Functional Materials</i> , 2013, 23, 4262-4268.	14.9	76
50	Delocalization and Mobility of Charge Carriers in Covalent Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11768-11772.	3.1	73
51	High charge-carrier mobility enables exploitation of carrier multiplication in quantum-dot films. <i>Nature Communications</i> , 2013, 4, 2360.	12.8	73
52	Quasi Temperature Independent Electron Mobility in Hexagonal Columnar Mesophases of an H-Bonded Benzotrithiophene Derivative. <i>Chemistry of Materials</i> , 2010, 22, 1420-1428.	6.7	72
53	Spectroscopic Evidence for the Contribution of Holes to the Bleach of Cd-Chalcogenide Quantum Dots. <i>Nano Letters</i> , 2019, 19, 3002-3010.	9.1	72
54	Efficient Exciton Transport in Layers of Self-Assembled Porphyrin Derivatives. <i>Journal of the American Chemical Society</i> , 2008, 130, 2485-2492.	13.7	71

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55	Enhanced Hot-Carrier Cooling and Ultrafast Spectral Diffusion in Strongly Coupled PbSe Quantum-Dot Solids. <i>Nano Letters</i> , 2011, 11, 5471-5476.	9.1	71
56	Conformationally Gated Rate Processes in Biological Macromolecules. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5666-5678.	2.5	69
57	Charge Mobilities in Conjugated Polymers Measured by Pulse Radiolysis Time-Resolved Microwave Conductivity: From Single Chains to Solids. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2951-2958.	4.6	69
58	Dynamics of a Triphenylene Discotic Molecule, HAT6, in the Columnar and Isotropic Liquid Phases. <i>Journal of the American Chemical Society</i> , 2003, 125, 3860-3866.	13.7	67
59	The Disperse Charge-Carrier Kinetics in Regioregular Poly(3-hexylthiophene). <i>Journal of Physical Chemistry B</i> , 2004, 108, 17818-17824.	2.6	66
60	Theoretical and experimental studies of the opto-electronic properties of positively charged oligo(phenylene vinylene)s: Effects of chain length and alkoxy substitution. <i>Journal of Chemical Physics</i> , 2002, 117, 11366-11378.	3.0	65
61	Hydrogen-bond stabilized columnar discotic benzenetrisamides with pendant triphenylene groups. <i>Journal of Materials Chemistry</i> , 2008, 18, 5475.	6.7	64
62	Carrier multiplication in germanium nanocrystals. <i>Light: Science and Applications</i> , 2015, 4, e251-e251.	16.6	63
63	QM/MM Study of the Role of the Solvent in the Formation of the Charge Separated Excited State in 9,9- C^{\sim} -Bianthryl. <i>Journal of the American Chemical Society</i> , 2005, 127, 11019-11028.	13.7	62
64	Supercrystals of CdSe Quantum Dots with High Charge Mobility and Efficient Electron Transfer to TiO_2 . <i>ACS Nano</i> , 2010, 4, 1723-1731.	14.6	62
65	The Formation and Recombination Kinetics of Positively Charged Poly(phenylene vinylene) Chains in Pulse-Irradiated Dilute Solutions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5976-5986.	2.5	61
66	Anomalous Independence of Multiple Exciton Generation on Different Group IV-VI Quantum Dot Architectures. <i>Nano Letters</i> , 2011, 11, 1623-1629.	9.1	61
67	Time-Resolved Stark Spectroscopy in CdSe Nanoplatelets: Exciton Binding Energy, Polarizability, and Field-Dependent Radiative Rates. <i>Nano Letters</i> , 2016, 16, 6576-6583.	9.1	60
68	Nature of the Second Optical Transition in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 2112-2117.	9.1	59
69	Mechanism of Charge Transport along Zinc Porphyrin-Based Molecular Wires. <i>Journal of the American Chemical Society</i> , 2009, 131, 5522-5529.	13.7	59
70	Electrochemical Charging of CdSe Quantum Dot Films: Dependence on Void Size and Counterion Proximity. <i>ACS Nano</i> , 2013, 7, 2500-2508.	14.6	59
71	Guanine Modifications Following Ionization of DNA Occurs Predominantly via Intra- and Not Interstrand Charge Migration: An Experimental and Theoretical Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5283-5290.	2.6	57
72	Efficient Charge Transport along Phenylene-Vinylene Molecular Wires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14659-14666.	2.6	57

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73	Photosensitization of TiO ₂ and SnO ₂ by Artificial Self-Assembling Mimics of the Natural Chlorosomal Bacteriochlorophylls. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11726-11733.	3.1	57
74	Exciton Diffusion and Interfacial Charge Separation in meso-Tetraphenylporphyrin/TiO ₂ Bilayers: Effect of Ethyl Substituents. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20166-20173.	2.6	56
75	Photogeneration and Decay of Charge Carriers in Hybrid Bulk Heterojunctions of ZnO Nanoparticles and Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2006, 110, 10315-10321.	2.6	56
76	Highly Photoconductive CdSe Quantum-Dot Films: Influence of Capping Molecules and Film Preparation Procedure. <i>Journal of Physical Chemistry C</i> , 2010, 114, 3441-3447.	3.1	56
77	Generating Free Charges by Carrier Multiplication in Quantum Dots for Highly Efficient Photovoltaics. <i>Accounts of Chemical Research</i> , 2015, 48, 174-181.	15.6	56
78	Sequence-dependent charge transfer in donor-DNA-acceptor systems: A theoretical study. <i>International Journal of Quantum Chemistry</i> , 1999, 75, 1009-1016.	2.0	55
79	Enhanced charge-carrier mobility in π -phase polyfluorene. <i>Physical Review B</i> , 2006, 74, .	3.2	55
80	Size-Dependent Electron Transfer from PbSe Quantum Dots to SnO ₂ Monitored by Picosecond Terahertz Spectroscopy. <i>Nano Letters</i> , 2011, 11, 5234-5239.	9.1	53
81	Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. <i>Nano Letters</i> , 2012, 12, 5740-5743.	9.1	51
82	Disorder strongly enhances Auger recombination in conductive quantum-dot solids. <i>Nature Communications</i> , 2013, 4, 2329.	12.8	51
83	Columnar Mesophases with 3D Order from New Functional Nonconventional Star-shaped Mesogens. <i>Advanced Materials</i> , 2008, 20, 4414-4418.	21.0	49
84	Activating Carrier Multiplication in PbSe Quantum Dot Solids by Infilling with Atomic Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1766-1770.	4.6	49
85	Hole Cooling Is Much Faster than Electron Cooling in PbSe Quantum Dots. <i>ACS Nano</i> , 2016, 10, 695-703.	14.6	49
86	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	12.8	48
87	Effects of molecular organization on exciton diffusion in thin films of bioinspired light-harvesting molecules. <i>Journal of Materials Chemistry</i> , 2009, 19, 6067.	6.7	47
88	Efficient Charge Transport in Semisynthetic Zinc Chlorin Dye Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 16147-16150.	13.7	47
89	Frequency dependent mobility of charge carriers along polymer chains with finite length. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 382-386.	1.5	45
90	Efficient Light-Harvesting Layers of Homeotropically Aligned Porphyrin Derivatives. <i>Advanced Materials</i> , 2006, 18, 2234-2239.	21.0	45

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91	Signature of exciton annihilation in the photoconductance of regioregular poly(3-hexylthiophene). <i>Physical Review B</i> , 2005, 71, .	3.2	44
92	Free carrier photogeneration in polythiophene versus poly(phenylene vinylene) studied with THz spectroscopy. <i>Chemical Physics Letters</i> , 2006, 432, 441-445.	2.6	44
93	What Limits Photoconductance in Anatase TiO ₂ Nanostructures? A Real and Imaginary Microwave Conductance Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8032-8040.	3.1	43
94	Anisotropy of the charge-carrier mobility in polydiacetylene crystals. <i>Journal of Chemical Physics</i> , 1998, 109, 1885-1893.	3.0	42
95	Electrochemical Control over Photoinduced Electron Transfer and Trapping in CdSe-CdTe Quantum-Dot Solids. <i>ACS Nano</i> , 2014, 8, 7067-7077.	14.6	42
96	Free Charges Produced by Carrier Multiplication in Strongly Coupled PbSe Quantum Dot Films. <i>Nano Letters</i> , 2011, 11, 4485-4489.	9.1	41
97	Conjugated poly(azomethine)s via simple one-step polycondensation chemistry: synthesis, thermal and optoelectronic properties. <i>Polymer Chemistry</i> , 2013, 4, 4182.	3.9	41
98	Electronic Structure and Optical Properties of Charged Oligofluorenes Studied by VIS/NIR Spectroscopy and Time-Dependent Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5984-5993.	2.6	40
99	Self-assembly and semiconductivity of an oligothiophene supergelator. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 1070-1078.	2.2	40
100	Mobility and Spatial Distribution of Photoexcited Electrons in CdSe/CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3146-3151.	3.1	40
101	Transport Properties of a Two-Dimensional PbSe Square Superstructure in an Electrolyte-Gated Transistor. <i>Nano Letters</i> , 2017, 17, 5238-5243.	9.1	40
102	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	5.1	40
103	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	40
104	Charge Transport along Coiled Conjugated Polymer Chains. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11104-11112.	3.1	39
105	Charge Carrier Cooling Bottleneck Opens Up Nonexcitonic Gain Mechanisms in Colloidal CdSe Quantum Wells. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9640-9650.	3.1	39
106	Electronic Structure of Thienylene Vinylene Oligomers: Singlet Excited States, Triplet Excited States, Cations, and Dications. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16139-16146.	2.6	38
107	Charge transfer versus molecular conductance: molecular orbital symmetry turns quantum interference rules upside down. <i>Chemical Science</i> , 2015, 6, 4196-4206.	7.4	38
108	A subpicosecond pump-probe laser study of ionization and geminate charge recombination kinetics in alkane liquids. <i>Journal of Chemical Physics</i> , 1997, 107, 9339-9347.	3.0	37

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109	The Mechanism of Long-Range Exciton Diffusion in a Nematically Organized Porphyrin Layer. <i>Journal of the American Chemical Society</i> , 2008, 130, 12496-12500.	13.7	37
110	Photoinduced Charge Carrier Generation in Blends of Poly(Thienothiophene) Derivatives and [6,6]-Phenyl-C61-butyric Acid Methyl Ester: Phase Segregation versus Intercalation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15116-15120.	3.1	37
111	Positive Charge Carriers on Isolated Chains of MEHâ~PPV with Broken Conjugation:â€‰ Optical Absorption and Mobility. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1554-1558.	2.6	36
112	A Fluorine-Substituted Hexakisdecyloxy- hexa-peri-hexabenzocoronene. <i>Organic Letters</i> , 2005, 7, 5019-5022.	4.6	36
113	Effect of GC Base Pairs on Charge Transfer through DNA Hairpins: The Importance of Electrostatic Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 14204-14205.	13.7	36
114	Electrodeless Measurement of the In-Plane Anisotropy in the Photoconductivity of an Aligned Polyfluorene Film. <i>Advanced Materials</i> , 2001, 13, 1627-1630.	21.0	35
115	Energy loss by non-relativistic electrons and positrons in liquid water. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2002, 194, 237-250.	1.4	35
116	Chemically Gated Quantum-Interference-Based Molecular Transistor. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1753-1756.	4.6	35
117	Photoconductivity Enhancement in Multilayers of CdSe and CdTe Quantum Dots. <i>ACS Nano</i> , 2011, 5, 3552-3558.	14.6	35
118	Determination of Singlet Exciton Diffusion Length in Thin Evaporated C₆₀ Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2367-2373.	4.6	35
119	The Effect of Annealing on the Charge-Carrier Dynamics in a Polymer/Polymer Bulk Heterojunction for Photovoltaic Applications. <i>Advanced Functional Materials</i> , 2005, 15, 469-474.	14.9	34
120	Impact of the Computational Method on the Geometric and Electronic Properties of Oligo(phenylene) Tj ETQqO O Q,rgBT /Overlock 10 T	2.8	34
121	Broadband Cooling Spectra of Hot Electrons and Holes in PbSe Quantum Dots. <i>ACS Nano</i> , 2017, 11, 6286-6294.	14.6	34
122	Simple and accurate wavefunctions for two-electron atoms in S, P and D states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, L321-L325.	1.5	33
123	Photogeneration and Mobility of Charge Carriers in Atomically Thin Colloidal InSe Nanosheets Probed by Ultrafast Terahertz Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4191-4196.	4.6	33
124	Electron and Hole Dynamics on Isolated Chains of a Solution-ProcessableÂPoly(thienylenevinylene) Derivative in Dilute Solution. <i>Advanced Materials</i> , 2005, 17, 718-723.	21.0	31
125	Broadband and Picosecond Intraband Absorption in Lead-Based Colloidal Quantum Dots. <i>ACS Nano</i> , 2012, 6, 6067-6074.	14.6	31
126	Branching ratios for the dissociative decay of tripletH2. <i>Physical Review A</i> , 1991, 44, 4171-4179.	2.5	30

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127	Organic Field-Effect Transistors Utilizing Solution-Deposited Oligothiophene-Based Swivel Cruciforms. <i>Chemistry of Materials</i> , 2007, 19, 1267-1276.	6.7	30
128	Absence of Postnanosecond Charge Carrier Relaxation in Poly(3-hexylthiophene)/Fullerene Blends. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1368-1371.	4.6	30
129	In Situ Spectroelectrochemical Determination of Energy Levels and Energy Level Offsets in Quantum-Dot Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5164-5173.	3.1	30
130	High Electronic Conductance through Double-Helix DNA Molecules with Fullerene Anchoring Groups. <i>Journal of Physical Chemistry A</i> , 2017, 121, 1182-1188.	2.5	30
131	Energy landscape of self-assembled superlattices of PbSe nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9054-9057.	7.1	29
132	A Phonon Scattering Bottleneck for Carrier Cooling in Lead Chalcogenide Nanocrystals. <i>ACS Nano</i> , 2015, 9, 778-788.	14.6	29
133	Deposition Mechanism of Aluminum Oxide on Quantum Dot Films at Atmospheric Pressure and Room Temperature. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4266-4275.	3.1	29
134	Molecular hydrogen $n=3$ triplet gerade complex disentangled. <i>Physical Review A</i> , 1991, 44, 4162-4170.	2.5	28
135	Predicting polarizabilities and lifetimes of excitons on conjugated polymer chains. <i>Chemical Physics Letters</i> , 2001, 334, 303-308.	2.6	28
136	An experimental study on the molecular organization and exciton diffusion in a bilayer of a porphyrin and poly(3-hexylthiophene). <i>Journal of Applied Physics</i> , 2008, 104, 034505.	2.5	28
137	Computer Simulation of the Ion Escape from High-Energy Electron Tracks in Nonpolar Liquids. <i>Journal of Physical Chemistry A</i> , 1997, 101, 1619-1627.	2.5	27
138	Time and frequency dependent charge carrier mobility of one-dimensional chains with energetic disorder. <i>Chemical Physics Letters</i> , 1997, 269, 257-262.	2.6	27
139	Cooling and Auger Recombination of Charges in PbSe Nanorods: Crossover from Cubic to Bimolecular Decay. <i>Nano Letters</i> , 2013, 13, 4380-4386.	9.1	26
140	Triplet exciton diffusion and delayed interfacial charge separation in a TiO ₂ /PdTPPC bilayer: Monte Carlo simulations. <i>Solar Energy Materials and Solar Cells</i> , 2005, 85, 189-203.	6.2	25
141	Charge Transfer Through Molecules with Multiple Pathways: Quantum Interference and Dephasing. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7973-7979.	3.1	25
142	Origin of Low Sensitizing Efficiency of Quantum Dots in Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 8983-8988.	14.6	25
143	Polydiacetylenes. , 2001, , 339-437.		24
144	Theoretical Study of the Optical Properties of Artificial Self-Assembled Zinc Chlorins. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20834-20842.	3.1	24

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145	A simple method to calculate potential curves of two-electron molecules at intermediate nuclear distances. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 4443-4452.	1.5	23
146	Two-Dimensional Charge Delocalization in X-Shaped Phenylenevinylene Oligomers. <i>Chemistry of Materials</i> , 2006, 18, 2118-2129.	6.7	23
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