

Laurens D A Siebbeles

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of the Structure and Temperature on the Nature of Excitons in the Mo _{0.6} W _{0.4} S ₂ Alloy. Journal of Physical Chemistry C, 2022, 126, 1931-1938.	3.1	2
2	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. Advanced Energy Materials, 2022, 12, .	19.5	40
3	Electronic Coupling of Highly Ordered Perovskite Nanocrystals in Supercrystals. ACS Applied Energy Materials, 2022, 5, 5415-5422.	5.1	9
4	Generating Triplets in Organic Semiconductor Tetracene upon Photoexcitation of Transition Metal Dichalcogenide ReS ₂ . Journal of Physical Chemistry Letters, 2021, 12, 5256-5260.	4.6	17
5	Unraveling the Photophysics of Liquid-Phase Exfoliated Two-Dimensional ReS ₂ Nanoflakes. Journal of Physical Chemistry C, 2021, 125, 20993-21002.	3.1	11
6	Probing Excitons in Ultrathin PbS Nanoplatelets with Enhanced Near-Infrared Emission. Journal of Physical Chemistry Letters, 2021, 12, 680-685.	4.6	20
7	Photon Recycling in CsPbBr ₃ All-Inorganic Perovskite Nanocrystals. ACS Photonics, 2021, 8, 3201-3208.	6.6	10
8	Efficient Carrier Multiplication in Low Band Gap Mixed Sn/Pb Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 6146-6149.	4.6	9
9	Emergence of new materials for exploiting highly efficient carrier multiplication in photovoltaics. Chemical Physics Reviews, 2020, 1, 011302.	5.7	13
10	Change in Tetracene Polymorphism Facilitates Triplet Transfer in Singlet Fission-Sensitized Silicon Solar Cells. Journal of Physical Chemistry Letters, 2020, 11, 8703-8709.	4.6	19
11	Biexcitons in highly excited CdSe nanoplatelets. Physical Review B, 2020, 102, .	3.2	9
12	Effects of material thickness and surrounding dielectric medium on Coulomb interactions and two-dimensional excitons. Physical Review B, 2020, 102, .	3.2	7
13	Observation of the quantized motion of excitons in CdSe nanoplatelets. Physical Review B, 2020, 102, .	3.2	13
14	Photogeneration Quantum Yield and Character of Free Charges and Excitons in PbSe Nanorods. Journal of Physical Chemistry C, 2020, 124, 7550-7557.	3.1	5
15	Atomic Layer Deposition of ZnO on InP Quantum Dot Films for Charge Separation, Stabilization, and Solar Cell Formation. Advanced Materials Interfaces, 2020, 7, 1901600.	3.7	23
16	Size-dependent exciton substructure in CdSe nanoplatelets and its relation to photoluminescence dynamics. Nanoscale, 2019, 11, 12230-12241.	5.6	19
17	Room-Temperature Electron Transport in Self-Assembled Sheets of PbSe Nanocrystals with a Honeycomb Nanogeometry. Journal of Physical Chemistry C, 2019, 123, 14058-14066.	3.1	4
18	Charge Photogeneration and Transport in AgBiS ₂ Nanocrystal Films for Photovoltaics. Solar Rrl, 2019, 3, 1900075.	5.8	20

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19	Unconventional Thermally Activated Indirect to Direct Radiative Recombination of Electrons and Holes in Tin Disulfide Two-Dimensional van der Waals Material. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11968-11973.	3.1	5
20	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
21	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
22	Photoexcitation of PbS nanosheets leads to highly mobile charge carriers and stable excitons. <i>Nanoscale</i> , 2019, 11, 21569-21576.	5.6	19
23	Engineering the Band Alignment in QD Heterojunction Films via Ligand Exchange. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29599-29608.	3.1	8
24	Explaining observed stability of excitons in highly excited CdSe nanoplatelets. <i>Physical Review B</i> , 2019, 100, .	3.2	14
25	Charge Mobility and Recombination Mechanisms in Tellurium van der Waals Solid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 841-847.	3.1	16
26	Model To Determine a Distinct Rate Constant for Carrier Multiplication from Experiments. <i>ACS Applied Energy Materials</i> , 2019, 2, 721-728.	5.1	4
27	Asymmetric Optical Transitions Determine the Onset of Carrier Multiplication in Lead Chalcogenide Quantum Confined and Bulk Crystals. <i>ACS Nano</i> , 2018, 12, 4796-4802.	14.6	16
28	Efficient Steplike Carrier Multiplication in Percolative Networks of Epitaxially Connected PbSe Nanocrystals. <i>ACS Nano</i> , 2018, 12, 378-384.	14.6	19
29	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 11733-11737.	2.0	7
30	Efficient carrier multiplication in CsPbI ₃ perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4199.	12.8	101
31	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	5.1	40
32	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018, 10, 11110-11116.	5.6	11
33	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11559-11563.	13.8	7
34	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	12.8	48
35	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
36	Broadband Cooling Spectra of Hot Electrons and Holes in PbSe Quantum Dots. <i>ACS Nano</i> , 2017, 11, 6286-6294.	14.6	34

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37	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017, 356, 69-73.	12.6	391
38	Ultrafast Transient Absorption and Terahertz Spectroscopy as Tools to Probe Photoexcited States and Dynamics in Colloidal 2D Nanostructures. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017, 231, 107-119.	2.8	15
39	Mobility and Decay Dynamics of Charge Carriers in One-Dimensional Selenium van der Waals Solid. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18917-18921.	3.1	11
40	Ultrafast Charge Transfer and Upconversion in Zinc Tetraaminophthalocyanine-Functionalized PbS Nanostructures Probed by Transient Absorption Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14061-14065.	13.8	12
41	Ultrafast Charge Transfer and Upconversion in Zinc Tetraaminophthalocyanine-Functionalized PbS Nanostructures Probed by Transient Absorption Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 14249-14253.	2.0	6
42	Localized Surface Plasmon Resonances of Various Nickel Sulfide Nanostructures and Au-NiS ₂ Core-Shell Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 7371-7377.	6.7	20
43	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
44	Ligand-surface interactions and surface oxidation of colloidal PbSe quantum dots revealed by thin-film positron annihilation methods. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	13
45	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
46	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
47	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
48	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
49	Hole Cooling Is Much Faster than Electron Cooling in PbSe Quantum Dots. <i>ACS Nano</i> , 2016, 10, 695-703.	14.6	49
50	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
51	Radiatively Dominated Charge Carrier Recombination in Black Phosphorus. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13836-13842.	3.1	19
52	Organic Linker Defines the Excited State Decay of Photocatalytic MIL-125(Ti)-Type Materials. <i>ChemSusChem</i> , 2016, 9, 388-395.	6.8	84
53	Computational design of donor-bridge-acceptor systems exhibiting pronounced quantum interference effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6773-6779.	2.8	12
54	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

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55	A Phonon Scattering Bottleneck for Carrier Cooling in Lead-Chalcogenide Nanocrystals. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1787, 1-5.	0.1	2
56	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
57	Carrier multiplication in germanium nanocrystals. <i>Light: Science and Applications</i> , 2015, 4, e251-e251.	16.6	63
58	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
59	A Phonon Scattering Bottleneck for Carrier Cooling in Lead Chalcogenide Nanocrystals. <i>ACS Nano</i> , 2015, 9, 778-788.	14.6	29
60	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
61	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
62	Different Mechanisms for Hole and Electron Transfer along Identical Molecular Bridges: The Importance of the Initial State Delocalization. <i>Journal of Physical Chemistry A</i> , 2014, 118, 3891-3898.	2.5	16
63	Highly efficient carrier multiplication in PbS nanosheets. <i>Nature Communications</i> , 2014, 5, 3789.	12.8	109
64	Nature and Decay Pathways of Photoexcited States in CdSe and CdSe/CdS Nanoplatelets. <i>Nano Letters</i> , 2014, 14, 7039-7045.	9.1	122
65	Fundamental processes in semiconductor nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25677-25678.	2.8	1
66	Epitaxially Connected PbSe Quantum-Dot Films: Controlled Neck Formation and Optoelectronic Properties. <i>ACS Nano</i> , 2014, 8, 11499-11511.	14.6	114
67	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
68	Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. <i>Science</i> , 2014, 344, 1377-1380.	12.6	343
69	Mechanisms of Photogeneration and Relaxation of Excitons and Mobile Carriers in Anatase TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2014, 118, 7337-7343.	3.1	14
70	High charge carrier mobility and efficient charge separation in highly soluble perylenetetracarboxyl-diimides. <i>Chemical Communications</i> , 2014, 50, 4955-4958.	4.1	9
71	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
72	Disorder strongly enhances Auger recombination in conductive quantum-dot solids. <i>Nature Communications</i> , 2013, 4, 2329.	12.8	51

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73	Phonons Do Not Assist Carrier Multiplication in PbSe Quantum Dot Solids. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3257-3262.	4.6	13
74	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
75	High charge-carrier mobility enables exploitation of carrier multiplication in quantum-dot films. <i>Nature Communications</i> , 2013, 4, 2360.	12.8	73
76	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
77	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. <i>Advanced Functional Materials</i> , 2013, 23, 4262-4268.	14.9	76
78	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
79	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
80	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
81	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
82	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
83	Broadband and picosecond intraband absorption in lead based colloidal quantum dots. , 2012, , .		0
84	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
85	Determination of Singlet Exciton Diffusion Length in Thin Evaporated C ₆₀ Films for Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2367-2373.	4.6	35
86	Origin of Low Sensitizing Efficiency of Quantum Dots in Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 8983-8988.	14.6	25
87	Efficient Charge Transport in Semisynthetic Zinc Chlorin Dye Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 16147-16150.	13.7	47
88	Effects of the Environment on Charge Transport in Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25213-25225.	3.1	17
89	Effect of Structural Dynamics and Base Pair Sequence on the Nature of Excited States in DNA Hairpins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 11447-11458.	2.6	22
90	Broadband and Picosecond Intraband Absorption in Lead-Based Colloidal Quantum Dots. <i>ACS Nano</i> , 2012, 6, 6067-6074.	14.6	31

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91	Photoconductivity of PbSe Quantum-Dot Solids: Dependence on Ligand Anchor Group and Length. ACS Nano, 2012, 6, 9606-9614.	14.6	113
92	Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. Nano Letters, 2012, 12, 5740-5743.	9.1	51
93	Direct generation of multiple excitons in adjacent silicon nanocrystals revealed by induced absorption. Nature Photonics, 2012, 6, 316-321.	31.4	173
94	Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge Transport Properties. Angewandte Chemie - International Edition, 2012, 51, 6378-6382.	13.8	88
95	Single molecule charge transport: from a quantum mechanical to a classical description. Physical Chemistry Chemical Physics, 2011, 13, 2096-2110.	2.8	21
96	Delocalization and Mobility of Charge Carriers in Covalent Organic Frameworks. Journal of Physical Chemistry C, 2011, 115, 11768-11772.	3.1	73
97	Charge Mobilities in Conjugated Polymers Measured by Pulse Radiolysis Time-Resolved Microwave Conductivity: From Single Chains to Solids. Journal of Physical Chemistry Letters, 2011, 2, 2951-2958.	4.6	69
98	Chemically Gated Quantum-Interference-Based Molecular Transistor. Journal of Physical Chemistry Letters, 2011, 2, 1753-1756.	4.6	35
99	Unraveling the Optoelectronic and Photochemical Behavior of Zn ₄ O-Based Metal Organic Frameworks. Journal of Physical Chemistry C, 2011, 115, 12487-12493.	3.1	98
100	Absence of Postnanosecond Charge Carrier Relaxation in Poly(3-hexylthiophene)/Fullerene Blends. Journal of Physical Chemistry Letters, 2011, 2, 1368-1371.	4.6	30
101	Size-Dependent Electron Transfer from PbSe Quantum Dots to SnO ₂ Monitored by Picosecond Terahertz Spectroscopy. Nano Letters, 2011, 11, 5234-5239.	9.1	53
102	Anomalous Independence of Multiple Exciton Generation on Different Group IV-VI Quantum Dot Architectures. Nano Letters, 2011, 11, 1623-1629.	9.1	61
103	Photoconductivity Enhancement in Multilayers of CdSe and CdTe Quantum Dots. ACS Nano, 2011, 5, 3552-3558.	14.6	35
104	Unity quantum yield of photogenerated charges and band-like transport in quantum-dot solids. Nature Nanotechnology, 2011, 6, 733-739.	31.5	164
105	Enhanced Hot-Carrier Cooling and Ultrafast Spectral Diffusion in Strongly Coupled PbSe Quantum-Dot Solids. Nano Letters, 2011, 11, 5471-5476.	9.1	71
106	Free Charges Produced by Carrier Multiplication in Strongly Coupled PbSe Quantum Dot Films. Nano Letters, 2011, 11, 4485-4489.	9.1	41
107	Columnar Mesophases Based on Zinc Chlorophyll Derivatives Functionalized with Peripheral Dendron Wedges. Chemistry - A European Journal, 2011, 17, 5300-5310.	3.3	19
108	Efficient photogeneration of charge carriers in silicon nanowires with a radial doping gradient. Nanotechnology, 2011, 22, 315710.	2.6	14

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109	A combined study of mesomorphism, optical, and electronic properties of donor-acceptor columnar liquid crystals. Proceedings of SPIE, 2011, , .	0.8	1
110	Simulation of Hopping Transport Based on Charge Carrier Localization Times Derived for a Two-Level System. Journal of Physical Chemistry C, 2010, 114, 20424-20430.	3.1	11
111	Temperature-Independent Charge Carrier Photogeneration in P3HT~PCBM Blends with Different Morphology. Journal of Physical Chemistry C, 2010, 114, 5182-5186.	3.1	105
112	Highly Photoconductive CdSe Quantum-Dot Films: Influence of Capping Molecules and Film Preparation Procedure. Journal of Physical Chemistry C, 2010, 114, 3441-3447.	3.1	56
113	Temperature-Resolved Local and Macroscopic Charge Carrier Transport in Thin P3HT Layers. Advanced Functional Materials, 2010, 20, 2286-2295.	14.9	131
114	Two electrons from one photon. Nature Chemistry, 2010, 2, 608-609.	13.6	12
115	Self-assembly and semiconductivity of an oligothiophene supergelator. Beilstein Journal of Organic Chemistry, 2010, 6, 1070-1078.	2.2	40
116	Photoinduced Charge Carrier Generation in Blends of Poly(Thienothiophene) Derivatives and [6,6]-Phenyl-C61-butyric Acid Methyl Ester: Phase Segregation versus Intercalation. Journal of Physical Chemistry C, 2010, 114, 15116-15120.	3.1	37
117	Charge Transfer Through Molecules with Multiple Pathways: Quantum Interference and Dephasing. Journal of Physical Chemistry C, 2010, 114, 7973-7979.	3.1	25
118	Quasi Temperature Independent Electron Mobility in Hexagonal Columnar Mesophases of an H-Bonded Benzotrithiophene Derivative. Chemistry of Materials, 2010, 22, 1420-1428.	6.7	72
119	Theoretical Study of the Optical Properties of Artificial Self-Assembled Zinc Chlorins. Journal of Physical Chemistry C, 2010, 114, 20834-20842.	3.1	24
120	Effect of Electrostatic Interactions and Dynamic Disorder on the Distance Dependence of Charge Transfer in Donor~Bridge~Acceptor Systems. Journal of Physical Chemistry B, 2010, 114, 14564-14571.	2.6	22
121	Supercrystals of CdSe Quantum Dots with High Charge Mobility and Efficient Electron Transfer to TiO ₂ . ACS Nano, 2010, 4, 1723-1731.	14.6	62
122	Probing formally forbidden optical transitions in PbSe nanocrystals by time- and energy-resolved transient absorption spectroscopy. Physical Review B, 2009, 80, .	3.2	16
123	Photogeneration and Ultrafast Dynamics of Excitons and Charges in P3HT/PCBM Blends. Journal of Physical Chemistry C, 2009, 113, 14500-14506.	3.1	304
124	Radical Cations of All- <i>Trans</i> Oligodiacetylenes: Optical Absorption and Reactivity toward Nucleophiles. Journal of Physical Chemistry B, 2009, 113, 11095-11100.	2.6	2
125	Photoconductance of Bulk Heterojunctions with Tunable Nanomorphology Consisting of P3HT and Naphthalene Diimide Siloxane Oligomers. Journal of Physical Chemistry C, 2009, 113, 7863-7869.	3.1	3
126	Mechanism of Charge Transport along Zinc Porphyrin-Based Molecular Wires. Journal of the American Chemical Society, 2009, 131, 5522-5529.	13.7	59

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127	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
128	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
129	Columnar Mesophases with 3D Order from New Functional Nonconventional Star-Shaped Mesogens. <i>Advanced Materials</i> , 2008, 20, 4414-4418.	21.0	49
130	Relationship between Film Morphology, Optical, and Conductive Properties of Poly(thienothiophene): [6,6]-Phenyl C-61-Butyric Acid Methyl Ester Bulk Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15973-15979.	3.1	18
131	Nature of the Second Optical Transition in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 2112-2117.	9.1	59
132	In Spite of Recent Doubts Carrier Multiplication Does Occur in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 1713-1718.	9.1	291
133	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
134	Mechanism of charge transport in self-organizing organic materials. <i>International Reviews in Physical Chemistry</i> , 2008, 27, 87-138.	2.3	194
135	Hydrogen-bond stabilized columnar discotic benzenetrisamides with pendant triphenylene groups. <i>Journal of Materials Chemistry</i> , 2008, 18, 5475.	6.7	64
136	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
137	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
138	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
139	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
140	Electron diffusion in polymer:fullerene bulk heterojunctions. <i>Physical Review B</i> , 2007, 75, .	3.2	12
141	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
142	Helical Growth of Semiconducting Columnar Dye Assemblies Based on Chiral Perylene Bisimides. <i>Organic Letters</i> , 2007, 9, 1085-1088.	4.6	145
143	Supramolecular Control of Charge Transport in Molecular Wires. <i>Journal of the American Chemical Society</i> , 2007, 129, 13370-13371.	13.7	94
144	Optical and Conductive Properties of Large-Area Liquid Crystalline Monodomains of Terthiophene Derivatives. <i>Journal of Physical Chemistry C</i> , 2007, 111, 18411-18416.	3.1	13

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145	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
146	Organic Field-Effect Transistors Utilizing Solution-Deposited Oligothiophene-Based Swivel Cruciforms. <i>Chemistry of Materials</i> , 2007, 19, 1267-1276.	6.7	30
147	Opto-Electronic Properties of Fluorene-Based Derivatives as Precursors for Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5812-5820.	3.1	23
148	Formation and Decay of Charge Carriers in Bulk Heterojunctions of MDMO-PPV or P3HT with New n-Type Conjugated Polymers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4452-4457.	3.1	22
149	Photoluminescence and Conductivity of Self-Assembled "π" Stacks of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2007, 13, 436-449.	3.3	552
150	Charge Transport along Coiled Conjugated Polymer Chains. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11104-11112.	3.1	39
151	Mechanism and Absolute Rates of Charge Transfer Through DNA. <i>Nanoscience and Technology</i> , 2007, , 21-43.	1.5	0
152	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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154	Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. <i>Chemical Communications</i> , 2006, , 3871-3873.	4.1	154
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