

Laurens D A Siebbeles

List of Publications by Year in descending order

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261
papers

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19636

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#	ARTICLE	IF	CITATIONS
1	Effects of the Structure and Temperature on the Nature of Excitons in the $\text{Mo}_{0.6}\text{W}_{0.4}\text{S}_2$ Alloy. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1931-1938.	1.5	2
2	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	40
3	Electronic Coupling of Highly Ordered Perovskite Nanocrystals in Supercrystals. <i>ACS Applied Energy Materials</i> , 2022, 5, 5415-5422.	2.5	9
4	Generating Triplets in Organic Semiconductor Tetracene upon Photoexcitation of Transition Metal Dichalcogenide ReS_2 . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5256-5260.	2.1	17
5	Unraveling the Photophysics of Liquid-Phase Exfoliated Two-Dimensional ReS_2 Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20993-21002.	1.5	11
6	Probing Excitons in Ultrathin PbS Nanoplatelets with Enhanced Near-Infrared Emission. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 680-685.	2.1	20
7	Photon Recycling in CsPbBr_3 All-Inorganic Perovskite Nanocrystals. <i>ACS Photonics</i> , 2021, 8, 3201-3208.	3.2	10
8	Efficient Carrier Multiplication in Low Band Gap Mixed Sn/Pb Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6146-6149.	2.1	9
9	Emergence of new materials for exploiting highly efficient carrier multiplication in photovoltaics. <i>Chemical Physics Reviews</i> , 2020, 1, 011302.	2.6	13
10	Change in Tetracene Polymorphism Facilitates Triplet Transfer in Singlet Fission-Sensitized Silicon Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8703-8709.	2.1	19
11	Biexcitons in highly excited CdSe nanoplatelets. <i>Physical Review B</i> , 2020, 102, .	1.1	9
12	Effects of material thickness and surrounding dielectric medium on Coulomb interactions and two-dimensional excitons. <i>Physical Review B</i> , 2020, 102, .	1.1	7
13	Observation of the quantized motion of excitons in CdSe nanoplatelets. <i>Physical Review B</i> , 2020, 102, .	1.1	13
14	Photogeneration Quantum Yield and Character of Free Charges and Excitons in PbSe Nanorods. <i>Journal of Physical Chemistry C</i> , 2020, 124, 7550-7557.	1.5	5
15	Atomic Layer Deposition of ZnO on InP Quantum Dot Films for Charge Separation, Stabilization, and Solar Cell Formation. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901600.	1.9	23
16	Size-dependent exciton substructure in CdSe nanoplatelets and its relation to photoluminescence dynamics. <i>Nanoscale</i> , 2019, 11, 12230-12241.	2.8	19
17	Room-Temperature Electron Transport in Self-Assembled Sheets of PbSe Nanocrystals with a Honeycomb Nanogeometry. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14058-14066.	1.5	4
18	Charge Photogeneration and Transport in AgBiS_2 Nanocrystal Films for Photovoltaics. <i>Solar Rrl</i> , 2019, 3, 1900075.	3.1	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.	1.5	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.	1.5	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.	4.5	72
22	Photoexcitation of PbS nanosheets leads to highly mobile charge carriers and stable excitons. <i>Nanoscale</i> , 2019, 11, 21569-21576.	2.8	19
23	Engineering the Band Alignment in QD Heterojunction Films via Ligand Exchange. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29599-29608.	1.5	8
24	Explaining observed stability of excitons in highly excited CdSe nanoplatelets. <i>Physical Review B</i> , 2019, 100, .	1.1	14
25	Charge Mobility and Recombination Mechanisms in Tellurium van der Waals Solid. <i>Journal of Physical Chemistry C</i> , 2019, 123, 841-847.	1.5	16
26	Model To Determine a Distinct Rate Constant for Carrier Multiplication from Experiments. <i>ACS Applied Energy Materials</i> , 2019, 2, 721-728.	2.5	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.	7.3	16
28	Efficient Steplike Carrier Multiplication in Percolative Networks of Epitaxially Connected PbSe Nanocrystals. <i>ACS Nano</i> , 2018, 12, 378-384.	7.3	19
29	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie</i> , 2018, 130, 11733-11737.	1.6	7
30	Efficient carrier multiplication in CsPbI ₃ perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4199.	5.8	101
31	Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576.	2.5	40
32	Selective antimony reduction initiating the nucleation and growth of InSb quantum dots. <i>Nanoscale</i> , 2018, 10, 11110-11116.	2.8	11
33	Correlated, Dual-Beam Optical Gating in Coupled Organic-Inorganic Nanostructures. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11559-11563.	7.2	7
34	Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310.	5.8	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.	1.1	30
36	Broadband Cooling Spectra of Hot Electrons and Holes in PbSe Quantum Dots. <i>ACS Nano</i> , 2017, 11, 6286-6294.	7.3	34

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37	All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. <i>Science</i> , 2017, 356, 69-73.	6.0	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.	1.4	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.	1.5	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.	7.2	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.	1.6	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.	3.2	20
43	Transport Properties of a Two-Dimensional PbSe Square Superstructure in an Electrolyte-Gated Transistor. <i>Nano Letters</i> , 2017, 17, 5238-5243.	4.5	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, .	1.5	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.	1.5	29
46	In situ study of the formation mechanism of two-dimensional superlattices from PbSe nanocrystals. <i>Nature Materials</i> , 2016, 15, 1248-1254.	13.3	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.	2.1	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.	4.5	60
49	Hole Cooling Is Much Faster than Electron Cooling in PbSe Quantum Dots. <i>ACS Nano</i> , 2016, 10, 695-703.	7.3	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.	2.1	119
51	Radiatively Dominated Charge Carrier Recombination in Black Phosphorus. <i>Journal of Physical Chemistry C</i> , 2016, 120, 13836-13842.	1.5	19
52	Organic Linker Defines the Excited State Decay of Photocatalytic MIL-125(Ti)-Type Materials. <i>ChemSusChem</i> , 2016, 9, 388-395.	3.6	84
53	Computational design of donor-bridge-acceptor systems exhibiting pronounced quantum interference effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6773-6779.	1.3	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.	1.5	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.	3.7	38
57	Carrier multiplication in germanium nanocrystals. <i>Light: Science and Applications</i> , 2015, 4, e251-e251.	7.7	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.	7.6	56
59	A Phonon Scattering Bottleneck for Carrier Cooling in Lead Chalcogenide Nanocrystals. <i>ACS Nano</i> , 2015, 9, 778-788.	7.3	29
60	Density of Trap States and Auger-mediated Electron Trapping in CdTe Quantum-Dot Solids. <i>Nano Letters</i> , 2015, 15, 3056-3066.	4.5	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.	5.8	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.	1.1	16
63	Highly efficient carrier multiplication in PbS nanosheets. <i>Nature Communications</i> , 2014, 5, 3789.	5.8	109
64	Nature and Decay Pathways of Photoexcited States in CdSe and CdSe/CdS Nanoplatelets. <i>Nano Letters</i> , 2014, 14, 7039-7045.	4.5	122
65	Fundamental processes in semiconductor nanocrystals. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25677-25678.	1.3	1
66	Epitaxially Connected PbSe Quantum-Dot Films: Controlled Neck Formation and Optoelectronic Properties. <i>ACS Nano</i> , 2014, 8, 11499-11511.	7.3	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.	3.3	29
68	Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. <i>Science</i> , 2014, 344, 1377-1380.	6.0	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.	1.5	14
70	High charge carrier mobility and efficient charge separation in highly soluble perylenetetracarboxyl-diimides. <i>Chemical Communications</i> , 2014, 50, 4955-4958.	2.2	9
71	Electrochemical Control over Photoinduced Electron Transfer and Trapping in CdSe-CdTe Quantum-Dot Solids. <i>ACS Nano</i> , 2014, 8, 7067-7077.	7.3	42
72	Disorder strongly enhances Auger recombination in conductive quantum-dot solids. <i>Nature Communications</i> , 2013, 4, 2329.	5.8	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.	2.1	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.	2.1	146
75	High charge-carrier mobility enables exploitation of carrier multiplication in quantum-dot films. <i>Nature Communications</i> , 2013, 4, 2360.	5.8	73
76	Mobility and Spatial Distribution of Photoexcited Electrons in CdSe/CdS Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 3146-3151.	1.5	40
77	Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. <i>Advanced Functional Materials</i> , 2013, 23, 4262-4268.	7.8	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.	2.1	49
79	Electrochemical Charging of CdSe Quantum Dot Films: Dependence on Void Size and Counterion Proximity. <i>ACS Nano</i> , 2013, 7, 2500-2508.	7.3	59
80	Conjugated poly(azomethine)s via simple one-step polycondensation chemistry: synthesis, thermal and optoelectronic properties. <i>Polymer Chemistry</i> , 2013, 4, 4182.	1.9	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.	1.5	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.	4.5	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.	1.5	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.	2.1	35
86	Origin of Low Sensitizing Efficiency of Quantum Dots in Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 8983-8988.	7.3	25
87	Efficient Charge Transport in Semisynthetic Zinc Chlorin Dye Assemblies. <i>Journal of the American Chemical Society</i> , 2012, 134, 16147-16150.	6.6	47
88	Effects of the Environment on Charge Transport in Molecular Wires. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25213-25225.	1.5	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.	1.2	22
90	Broadband and Picosecond Intraband Absorption in Lead-Based Colloidal Quantum Dots. <i>ACS Nano</i> , 2012, 6, 6067-6074.	7.3	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.	7.3	113
92	Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. Nano Letters, 2012, 12, 5740-5743.	4.5	51
93	Direct generation of multiple excitons in adjacent silicon nanocrystals revealed by induced absorption. Nature Photonics, 2012, 6, 316-321.	15.6	173
94	Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge Transport Properties. Angewandte Chemie - International Edition, 2012, 51, 6378-6382.	7.2	88
95	Single molecule charge transport: from a quantum mechanical to a classical description. Physical Chemistry Chemical Physics, 2011, 13, 2096-2110.	1.3	21
96	Delocalization and Mobility of Charge Carriers in Covalent Organic Frameworks. Journal of Physical Chemistry C, 2011, 115, 11768-11772.	1.5	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.	2.1	69
98	Chemically Gated Quantum-Interference-Based Molecular Transistor. Journal of Physical Chemistry Letters, 2011, 2, 1753-1756.	2.1	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.	1.5	98
100	Absence of Postnanosecond Charge Carrier Relaxation in Poly(3-hexylthiophene)/Fullerene Blends. Journal of Physical Chemistry Letters, 2011, 2, 1368-1371.	2.1	30
101	Size-Dependent Electron Transfer from PbSe Quantum Dots to SnO ₂ Monitored by Picosecond Terahertz Spectroscopy. Nano Letters, 2011, 11, 5234-5239.	4.5	53
102	Anomalous Independence of Multiple Exciton Generation on Different Group IV-VI Quantum Dot Architectures. Nano Letters, 2011, 11, 1623-1629.	4.5	61
103	Photoconductivity Enhancement in Multilayers of CdSe and CdTe Quantum Dots. ACS Nano, 2011, 5, 3552-3558.	7.3	35
104	Unity quantum yield of photogenerated charges and band-like transport in quantum-dot solids. Nature Nanotechnology, 2011, 6, 733-739.	15.6	164
105	Enhanced Hot-Carrier Cooling and Ultrafast Spectral Diffusion in Strongly Coupled PbSe Quantum-Dot Solids. Nano Letters, 2011, 11, 5471-5476.	4.5	71
106	Free Charges Produced by Carrier Multiplication in Strongly Coupled PbSe Quantum Dot Films. Nano Letters, 2011, 11, 4485-4489.	4.5	41
107	Columnar Mesophases Based on Zinc Chlorophyll Derivatives Functionalized with Peripheral Dendron Wedges. Chemistry - A European Journal, 2011, 17, 5300-5310.	1.7	19
108	Efficient photogeneration of charge carriers in silicon nanowires with a radial doping gradient. Nanotechnology, 2011, 22, 315710.	1.3	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.	1.5	11
111	Temperature-Independent Charge Carrier Photogeneration in P3HT~PCBM Blends with Different Morphology. Journal of Physical Chemistry C, 2010, 114, 5182-5186.	1.5	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.	1.5	56
113	Temperature-Resolved Local and Macroscopic Charge Carrier Transport in Thin P3HT Layers. Advanced Functional Materials, 2010, 20, 2286-2295.	7.8	131
114	Two electrons from one photon. Nature Chemistry, 2010, 2, 608-609.	6.6	12
115	Self-assembly and semiconductivity of an oligothiophene supergelator. Beilstein Journal of Organic Chemistry, 2010, 6, 1070-1078.	1.3	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.	1.5	37
117	Charge Transfer Through Molecules with Multiple Pathways: Quantum Interference and Dephasing. Journal of Physical Chemistry C, 2010, 114, 7973-7979.	1.5	25
118	Quasi Temperature Independent Electron Mobility in Hexagonal Columnar Mesophases of an H-Bonded Benzotrithiophene Derivative. Chemistry of Materials, 2010, 22, 1420-1428.	3.2	72
119	Theoretical Study of the Optical Properties of Artificial Self-Assembled Zinc Chlorins. Journal of Physical Chemistry C, 2010, 114, 20834-20842.	1.5	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.	1.2	22
121	Supercrystals of CdSe Quantum Dots with High Charge Mobility and Efficient Electron Transfer to TiO ₂ . ACS Nano, 2010, 4, 1723-1731.	7.3	62
122	Probing formally forbidden optical transitions in PbSe nanocrystals by time- and energy-resolved transient absorption spectroscopy. Physical Review B, 2009, 80, .	1.1	16
123	Photogeneration and Ultrafast Dynamics of Excitons and Charges in P3HT/PCBM Blends. Journal of Physical Chemistry C, 2009, 113, 14500-14506.	1.5	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.	1.2	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.	1.5	3
126	Mechanism of Charge Transport along Zinc Porphyrin-Based Molecular Wires. Journal of the American Chemical Society, 2009, 131, 5522-5529.	6.6	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.	6.6	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.	11.1	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.	1.5	18
131	Nature of the Second Optical Transition in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 2112-2117.	4.5	59
132	In Spite of Recent Doubts Carrier Multiplication Does Occur in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 1713-1718.	4.5	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.	1.5	114
134	Mechanism of charge transport in self-organizing organic materials. <i>International Reviews in Physical Chemistry</i> , 2008, 27, 87-138.	0.9	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.	6.6	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.	6.6	37
138	Effect of Structural Dynamics on Charge Transfer in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2008, 130, 5157-5166.	6.6	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.	1.1	28
140	Electron diffusion in polymer:fullerene bulk heterojunctions. <i>Physical Review B</i> , 2007, 75, .	1.1	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.	1.5	87
142	Helical Growth of Semiconducting Columnar Dye Assemblies Based on Chiral Perylene Bisimides. <i>Organic Letters</i> , 2007, 9, 1085-1088.	2.4	145
143	Supramolecular Control of Charge Transport in Molecular Wires. <i>Journal of the American Chemical Society</i> , 2007, 129, 13370-13371.	6.6	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.	1.5	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.	1.5	57
146	Organic Field-Effect Transistors Utilizing Solution-Deposited Oligothiophene-Based Swivel Cruciforms. <i>Chemistry of Materials</i> , 2007, 19, 1267-1276.	3.2	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.	1.5	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.	1.5	22
149	Photoluminescence and Conductivity of Self-Assembled "π-π" Stacks of Perylene Bisimide Dyes. <i>Chemistry - A European Journal</i> , 2007, 13, 436-449.	1.7	552
150	Charge Transport along Coiled Conjugated Polymer Chains. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11104-11112.	1.5	39
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152	Efficient Charge Transport along Phenylene~Vinylene Molecular Wires. <i>Journal of Physical Chemistry B</i> , 2006, 110, 14659-14666.	1.2	57
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