

Laurens D A Siebbeles

List of Publications by Year in descending order

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docs citations

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times ranked

14551
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Photoluminescence and Conductivity of Self-Assembled π - π Stacks of Perylene Bisimide Dyes. Chemistry - A European Journal, 2007, 13, 436-449. | 1.7 | 552 |
| 2 | Charge Transport Properties in Discotic Liquid Crystals: A Quantum-Chemical Insight into Structure-Property Relationships. Journal of the American Chemical Society, 2004, 126, 3271-3279. | 6.6 | 464 |
| 3 | Charge transport in columnar stacked triphenylenes: Effects of conformational fluctuations on charge transfer integrals and site energies. Journal of Chemical Physics, 2003, 119, 9809-9817. | 1.2 | 395 |
| 4 | All-printed thin-film transistors from networks of liquid-exfoliated nanosheets. Science, 2017, 356, 69-73. | 6.0 | 391 |
| 5 | Long-range orientation and atomic attachment of nanocrystals in 2D honeycomb superlattices. Science, 2014, 344, 1377-1380. | 6.0 | 343 |
| 6 | Absolute Rates of Hole Transfer in DNA. Journal of the American Chemical Society, 2005, 127, 14894-14903. | 6.6 | 325 |
| 7 | Photogeneration and Ultrafast Dynamics of Excitons and Charges in P3HT/PCBM Blends. Journal of Physical Chemistry C, 2009, 113, 14500-14506. | 1.5 | 304 |
| 8 | High Electron Mobility in Room-Temperature Discotic Liquid-Crystalline Perylene Diimides. Advanced Materials, 2005, 17, 2580-2583. | 11.1 | 300 |
| 9 | Highly mobile electrons and holes on isolated chains of the semiconducting polymer poly(phenylene) Tj ETQq1 1 0.784314 rgBT /Ove 13.7 295 | 13.7 | 295 |
| 10 | In Spite of Recent Doubts Carrier Multiplication Does Occur in PbSe Nanocrystals. Nano Letters, 2008, 8, 1713-1718. | 4.5 | 291 |
| 11 | Mechanism of Charge Migration through DNA: A Molecular Wire Behavior, Single-Step Tunneling or Hopping?. Journal of the American Chemical Society, 2000, 122, 10903-10909. | 6.6 | 211 |
| 12 | In situ study of the formation mechanism of two-dimensional superlattices from PbSe nanocrystals. Nature Materials, 2016, 15, 1248-1254. | 13.3 | 199 |
| 13 | Mechanism of charge transport in self-organizing organic materials. International Reviews in Physical Chemistry, 2008, 27, 87-138. | 0.9 | 194 |
| 14 | Intramolecular Charge Transport along Isolated Chains of Conjugated Polymers: Effect of Torsional Disorder and Polymerization Defects. Journal of Physical Chemistry B, 2002, 106, 7791-7795. | 1.2 | 186 |
| 15 | Efficiency of Exciton and Charge Carrier Photogeneration in a Semiconducting Polymer. Physical Review Letters, 2004, 92, 196601. | 2.9 | 183 |
| 16 | High Intrachain Hole Mobility on Molecular Wires of Ladder-Type Poly(p-Phenylenes). Physical Review Letters, 2006, 96, 146601. | 2.9 | 181 |
| 17 | Direct generation of multiple excitons in adjacent silicon nanocrystals revealed by induced absorption. Nature Photonics, 2012, 6, 316-321. | 15.6 | 173 |
| 18 | Vector properties in photodissociation: Quantum treatment of the correlation between the spatial anisotropy and the angular momentum polarization of the fragments. Journal of Chemical Physics, 1994, 100, 3610-3623. | 1.2 | 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. | 11.1 | 167 |
| 20 | Unity quantum yield of photogenerated charges and band-like transport in quantum-dot solids. <i>Nature Nanotechnology</i> , 2011, 6, 733-739. | 15.6 | 164 |
| 21 | Functional organogels from highly efficient organogelator based on perylene bisimide semiconductor. <i>Chemical Communications</i> , 2006, , 3871-3873. | 2.2 | 154 |
| 22 | 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 |
| 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, . | 1.1 | 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. | 2.1 | 146 |
| 25 | Helical Growth of Semiconducting Columnar Dye Assemblies Based on Chiral Perylene Bisimides. <i>Organic Letters</i> , 2007, 9, 1085-1088. | 2.4 | 145 |
| 26 | H-Bond-Stabilized Triphenylene-Based Columnar Discotic Liquid Crystals. <i>Chemistry of Materials</i> , 2006, 18, 968-974. | 3.2 | 141 |
| 27 | Temperature-Resolved Local and Macroscopic Charge Carrier Transport in Thin P3HT Layers. <i>Advanced Functional Materials</i> , 2010, 20, 2286-2295. | 7.8 | 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. | 5.8 | 125 |
| 29 | Nature and Decay Pathways of Photoexcited States in CdSe and CdSe/CdS Nanoplatelets. <i>Nano Letters</i> , 2014, 14, 7039-7045. | 4.5 | 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. | 2.1 | 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. | 1.5 | 114 |
| 32 | Epitaxially Connected PbSe Quantum-Dot Films: Controlled Neck Formation and Optoelectronic Properties. <i>ACS Nano</i> , 2014, 8, 11499-11511. | 7.3 | 114 |
| 33 | Photoconductivity of PbSe Quantum-Dot Solids: Dependence on Ligand Anchor Group and Length. <i>ACS Nano</i> , 2012, 6, 9606-9614. | 7.3 | 113 |
| 34 | Hole Mobility in DNA: Effects of Static and Dynamic Structural Fluctuations. <i>ChemPhysChem</i> , 2002, 3, 536. | 1.0 | 112 |
| 35 | Highly efficient carrier multiplication in PbS nanosheets. <i>Nature Communications</i> , 2014, 5, 3789. | 5.8 | 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. | 1.5 | 105 |

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| 37 | Efficient carrier multiplication in CsPbI ₃ perovskite nanocrystals. <i>Nature Communications</i> , 2018, 9, 4199. | 5.8 | 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. | 1.5 | 98 |
| 39 | Mapping the Sites for Selective Oxidation of Guanines in DNA. <i>Journal of the American Chemical Society</i> , 2003, 125, 13658-13659. | 6.6 | 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. | 1.2 | 94 |
| 41 | Supramolecular Control of Charge Transport in Molecular Wires. <i>Journal of the American Chemical Society</i> , 2007, 129, 13370-13371. | 6.6 | 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. | 1.2 | 90 |
| 43 | Biosupramolecular Nanowires from Chlorophyll Dyes with Exceptional Charge Transport Properties. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 6378-6382. | 7.2 | 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. | 1.5 | 87 |
| 45 | 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 |
| 46 | Organic Linker Defines the Excited State Decay of Photocatalytic MIL-125(Ti)-Type Materials. <i>ChemSusChem</i> , 2016, 9, 388-395. | 3.6 | 84 |
| 47 | Mechanism of Charge Transport along Columnar Stacks of a Triphenylene Dimer. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9625-9634. | 1.2 | 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. | 1.5 | 77 |
| 49 | Origin of Reduced Bimolecular Recombination in Blends of Conjugated Polymers and Fullerenes. <i>Advanced Functional Materials</i> , 2013, 23, 4262-4268. | 7.8 | 76 |
| 50 | Delocalization and Mobility of Charge Carriers in Covalent Organic Frameworks. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11768-11772. | 1.5 | 73 |
| 51 | High charge-carrier mobility enables exploitation of carrier multiplication in quantum-dot films. <i>Nature Communications</i> , 2013, 4, 2360. | 5.8 | 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. | 3.2 | 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. | 4.5 | 72 |
| 54 | 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 |

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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. | 4.5 | 71 |
| 56 | Conformationally Gated Rate Processes in Biological Macromolecules. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5666-5678. | 1.1 | 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. | 2.1 | 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. | 6.6 | 67 |
| 59 | The Disperse Charge-Carrier Kinetics in Regioregular Poly(3-hexylthiophene). <i>Journal of Physical Chemistry B</i> , 2004, 108, 17818-17824. | 1.2 | 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. | 1.2 | 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. | 7.7 | 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. | 6.6 | 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. | 7.3 | 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. | 1.1 | 61 |
| 66 | Anomalous Independence of Multiple Exciton Generation on Different Group IV-VI Quantum Dot Architectures. <i>Nano Letters</i> , 2011, 11, 1623-1629. | 4.5 | 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. | 4.5 | 60 |
| 68 | Nature of the Second Optical Transition in PbSe Nanocrystals. <i>Nano Letters</i> , 2008, 8, 2112-2117. | 4.5 | 59 |
| 69 | Mechanism of Charge Transport along Zinc Porphyrin-Based Molecular Wires. <i>Journal of the American Chemical Society</i> , 2009, 131, 5522-5529. | 6.6 | 59 |
| 70 | 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 |
| 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. | 1.2 | 57 |
| 72 | 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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| 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. | 1.5 | 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. | 1.2 | 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. | 1.2 | 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. | 1.5 | 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. | 7.6 | 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. | 1.0 | 55 |
| 79 | Enhanced charge-carrier mobility in π -phase polyfluorene. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 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. | 4.5 | 53 |
| 81 | Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. <i>Nano Letters</i> , 2012, 12, 5740-5743. | 4.5 | 51 |
| 82 | Disorder strongly enhances Auger recombination in conductive quantum-dot solids. <i>Nature Communications</i> , 2013, 4, 2329. | 5.8 | 51 |
| 83 | Columnar Mesophases with 3D Order from New Functional Nonconventional Star-shaped Mesogens. <i>Advanced Materials</i> , 2008, 20, 4414-4418. | 11.1 | 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. | 2.1 | 49 |
| 85 | Hole Cooling Is Much Faster than Electron Cooling in PbSe Quantum Dots. <i>ACS Nano</i> , 2016, 10, 695-703. | 7.3 | 49 |
| 86 | Hot-electron transfer in quantum-dot heterojunction films. <i>Nature Communications</i> , 2018, 9, 2310. | 5.8 | 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. | 6.6 | 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. | 0.7 | 45 |
| 90 | Efficient Light-Harvesting Layers of Homeotropically Aligned Porphyrin Derivatives. <i>Advanced Materials</i> , 2006, 18, 2234-2239. | 11.1 | 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, . | 1.1 | 44 |
| 92 | Free carrier photogeneration in polythiophene versus poly(phenylene vinylene) studied with THz spectroscopy. <i>Chemical Physics Letters</i> , 2006, 432, 441-445. | 1.2 | 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. | 1.5 | 43 |
| 94 | Anisotropy of the charge-carrier mobility in polydiacetylene crystals. <i>Journal of Chemical Physics</i> , 1998, 109, 1885-1893. | 1.2 | 42 |
| 95 | 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 |
| 96 | Free Charges Produced by Carrier Multiplication in Strongly Coupled PbSe Quantum Dot Films. <i>Nano Letters</i> , 2011, 11, 4485-4489. | 4.5 | 41 |
| 97 | 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 |
| 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. | 1.2 | 40 |
| 99 | Self-assembly and semiconductivity of an oligothiophene supergelator. <i>Beilstein Journal of Organic Chemistry</i> , 2010, 6, 1070-1078. | 1.3 | 40 |
| 100 | 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 |
| 101 | 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 |
| 102 | Highly Photoconductive InP Quantum Dots Films and Solar Cells. <i>ACS Applied Energy Materials</i> , 2018, 1, 6569-6576. | 2.5 | 40 |
| 103 | Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022, 12, . | 10.2 | 40 |
| 104 | Charge Transport along Coiled Conjugated Polymer Chains. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11104-11112. | 1.5 | 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. | 1.5 | 39 |
| 106 | Electronic Structure of Thiophene Vinylene Oligomers: Singlet Excited States, Triplet Excited States, Cations, and Dications. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16139-16146. | 1.2 | 38 |
| 107 | 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 |
| 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. | 1.2 | 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. | 6.6 | 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. | 1.5 | 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. | 1.2 | 36 |
| 112 | A Fluorine-Substituted Hexakisdecyloxy- hexa-peri-hexabenzocoronene. <i>Organic Letters</i> , 2005, 7, 5019-5022. | 2.4 | 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. | 6.6 | 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. | 11.1 | 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. | 0.6 | 35 |
| 116 | Chemically Gated Quantum-Interference-Based Molecular Transistor. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1753-1756. | 2.1 | 35 |
| 117 | Photoconductivity Enhancement in Multilayers of CdSe and CdTe Quantum Dots. <i>ACS Nano</i> , 2011, 5, 3552-3558. | 7.3 | 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. | 2.1 | 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. | 7.8 | 34 |
| 120 | Impact of the Computational Method on the Geometric and Electronic Properties of Oligo(phenylene) Tj ETQqO O Q, rgBT /Over ock 10 T | 1.2 | 34 |
| 121 | Broadband Cooling Spectra of Hot Electrons and Holes in PbSe Quantum Dots. <i>ACS Nano</i> , 2017, 11, 6286-6294. | 7.3 | 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. | 0.6 | 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. | 2.1 | 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. | 11.1 | 31 |
| 125 | Broadband and Picosecond Intraband Absorption in Lead-Based Colloidal Quantum Dots. <i>ACS Nano</i> , 2012, 6, 6067-6074. | 7.3 | 31 |
| 126 | Branching ratios for the dissociative decay of tripletH2. <i>Physical Review A</i> , 1991, 44, 4171-4179. | 1.0 | 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. | 3.2 | 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. | 2.1 | 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. | 1.5 | 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. | 1.1 | 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. | 3.3 | 29 |
| 132 | A Phonon Scattering Bottleneck for Carrier Cooling in Lead Chalcogenide Nanocrystals. <i>ACS Nano</i> , 2015, 9, 778-788. | 7.3 | 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. | 1.5 | 29 |
| 134 | Molecular hydrogen $n=3$ triplet gerade complex disentangled. <i>Physical Review A</i> , 1991, 44, 4162-4170. | 1.0 | 28 |
| 135 | Predicting polarizabilities and lifetimes of excitons on conjugated polymer chains. <i>Chemical Physics Letters</i> , 2001, 334, 303-308. | 1.2 | 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. | 1.1 | 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. | 1.1 | 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. | 1.2 | 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. | 4.5 | 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. | 3.0 | 25 |
| 141 | Charge Transfer Through Molecules with Multiple Pathways: Quantum Interference and Dephasing. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7973-7979. | 1.5 | 25 |
| 142 | Origin of Low Sensitizing Efficiency of Quantum Dots in Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 8983-8988. | 7.3 | 25 |
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