

Ian A Howard

List of Publications by Year in descending order

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171
papers

8,447
citations

57758

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46799

89
g-index

175
all docs

175
docs citations

175
times ranked

11374
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Ultrasensitive solution-cast quantum dot photodetectors. <i>Nature</i> , 2006, 442, 180-183. | 27.8 | 1,634 |
| 2 | Aggregation in a High-Mobility n-Type Low-Bandgap Copolymer with Implications on Semicrystalline Morphology. <i>Journal of the American Chemical Society</i> , 2012, 134, 18303-18317. | 13.7 | 395 |
| 3 | Effect of Morphology on Ultrafast Free Carrier Generation in Polythiophene:Fullerene Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2010, 132, 14866-14876. | 13.7 | 372 |
| 4 | Record Open-Circuit Voltage Wide-Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure. <i>Advanced Energy Materials</i> , 2019, 9, 1803699. | 19.5 | 325 |
| 5 | Ultrafast Exciton Dissociation Followed by Nongeminate Charge Recombination in PCDTBT:PCBM Photovoltaic Blends. <i>Journal of the American Chemical Society</i> , 2011, 133, 9469-9479. | 13.7 | 266 |
| 6 | Photoinduced Charge-Carrier Generation in Epitaxial MOF Thin Films: High Efficiency as a Result of an Indirect Electronic Band Gap?. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 7441-7445. | 13.8 | 206 |
| 7 | Charge Recombination in Organic Photovoltaic Devices with High Open-Circuit Voltages. <i>Journal of the American Chemical Society</i> , 2008, 130, 13653-13658. | 13.7 | 204 |
| 8 | Photon Upconversion for Photovoltaics and Photocatalysis: A Critical Review. <i>Chemical Reviews</i> , 2021, 121, 9165-9195. | 47.7 | 190 |
| 9 | The Effect of Solvent Additives on Morphology and Excited-State Dynamics in PCPDTBT:PCBM Photovoltaic Blends. <i>Journal of the American Chemical Society</i> , 2012, 134, 10569-10583. | 13.7 | 186 |
| 10 | Polythiophene:Perylene Diimide Solar Cells – the Impact of Alkyl-Substitution on the Photovoltaic Performance. <i>Advanced Energy Materials</i> , 2011, 1, 297-302. | 19.5 | 172 |
| 11 | Coated and Printed Perovskites for Photovoltaic Applications. <i>Advanced Materials</i> , 2019, 31, e1806702. | 21.0 | 146 |
| 12 | Correlated Donor/Acceptor Crystal Orientation Controls Photocurrent Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2014, 24, 4068-4081. | 14.9 | 144 |
| 13 | Perylene Tetracarboxydiimide as an Electron Acceptor in Organic Solar Cells: A Study of Charge Generation and Recombination. <i>Journal of Physical Chemistry C</i> , 2009, 113, 21225-21232. | 3.1 | 140 |
| 14 | Synthesis and Controlled Self-Assembly of Covalently Linked Hexa-peri-hexabenzocoronene/Perylene Diimide Dyads as Models To Study Fundamental Energy and Electron Transfer Processes. <i>Journal of the American Chemical Society</i> , 2012, 134, 5876-5886. | 13.7 | 134 |
| 15 | The Binding Energy of Charge-Transfer Excitons Localized at Polymeric Semiconductor Heterojunctions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7114-7119. | 3.1 | 131 |
| 16 | A solution-processed 1.53 μm quantum dot laser with temperature-invariant emission wavelength. <i>Optics Express</i> , 2006, 14, 3273. | 3.4 | 127 |
| 17 | Wide-range non-contact fluorescence intensity ratio thermometer based on $\text{Yb}^{3+}/\text{Nd}^{3+}$ -co-doped La_2O_3 microcrystals operating from 290 to 1230 K. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4163-4170. | 5.5 | 127 |
| 18 | Effect of Nongeminate Recombination on Fill Factor in Polythiophene/Methanofullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3500-3505. | 4.6 | 126 |

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|----|--|------|-----------|
| 19 | Photon Upconversion at Crystalline Organic/Organic Heterojunctions. <i>Advanced Materials</i> , 2016, 28, 8477-8482. | 21.0 | 125 |
| 20 | Continuous wave amplified spontaneous emission in phase-stable lead halide perovskites. <i>Nature Communications</i> , 2019, 10, 988. | 12.8 | 107 |
| 21 | Probing the pathways of free charge generation in organic bulk heterojunction solar cells. <i>Nature Communications</i> , 2018, 9, 2038. | 12.8 | 104 |
| 22 | Structure-Property Relationships in Lanthanide-Doped Upconverting Nanocrystals: Recent Advances in Understanding Core-Shell Structures. <i>Advanced Materials</i> , 2019, 31, e1900623. | 21.0 | 102 |
| 23 | Intermolecular Interactions of Perylene diimides in Photovoltaic Blends of Fluorene Copolymers: Disorder Effects on Photophysical Properties, Film Morphology and Device Efficiency. <i>Advanced Functional Materials</i> , 2008, 18, 3189-3202. | 14.9 | 87 |
| 24 | Efficient ZnO Nanowire Solid-State Dye-Sensitized Solar Cells Using Organic Dyes and Core-shell Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18515-18522. | 3.1 | 85 |
| 25 | Trap-Induced Losses in Hybrid Photovoltaics. <i>ACS Nano</i> , 2014, 8, 3213-3221. | 14.6 | 84 |
| 26 | Low-Temperature Control of Nanoscale Morphology for High Performance Polymer Photovoltaics. <i>Nano Letters</i> , 2008, 8, 3942-3947. | 9.1 | 82 |
| 27 | Highly stable solution processed metal-halide perovskite lasers on nanoimprinted distributed feedback structures. <i>Applied Physics Letters</i> , 2016, 109, . | 3.3 | 82 |
| 28 | Up-Conversion Fluorescent Labels for Plastic Recycling: A Review. <i>Advanced Sustainable Systems</i> , 2017, 1, 1600033. | 5.3 | 70 |
| 29 | Inkjet-printed perovskite distributed feedback lasers. <i>Optics Express</i> , 2018, 26, A144. | 3.4 | 68 |
| 30 | Sub-ns triplet state formation by non-geminate recombination in PSBTBT:PC ₇₀ BM and PCPDTBT:PC ₆₀ BM organic solar cells. <i>Energy and Environmental Science</i> , 2015, 8, 1511-1522. | 30.8 | 67 |
| 31 | Absolute upconversion quantum yields of blue-emitting LiYF ₄ :Yb ³⁺ ,Tm ³⁺ upconverting nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 22556-22562. | 2.8 | 66 |
| 32 | Charge Recombination and Exciton Annihilation Reactions in Conjugated Polymer Blends. <i>Journal of the American Chemical Society</i> , 2010, 132, 328-335. | 13.7 | 65 |
| 33 | Interplay Between Side Chain Pattern, Polymer Aggregation, and Charge Carrier Dynamics in PBDDTPD:PCBM Bulk Heterojunction Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401778. | 19.5 | 64 |
| 34 | Up-conversion quantum yields of SrF ₂ :Yb ³⁺ ,Er ³⁺ sub-micron particles prepared by precipitation from aqueous solution. <i>Journal of Materials Chemistry C</i> , 2018, 6, 598-604. | 5.5 | 61 |
| 35 | Vacuum-Assisted Growth of Low-Bandgap Thin Films (FA _{0.8} MA _{0.2} Sn _{0.5} Pb _{0.5} I ₃) for All-Perovskite Tandem Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1902583. | 19.5 | 60 |
| 36 | Upconversion properties of SrF ₂ :Yb ³⁺ ,Er ³⁺ single crystals. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4093-4101. | 5.5 | 58 |

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|----|--|------|-----------|
| 37 | Probing the Morphology and Energy Landscape of Blends of Conjugated Polymers with Sub-10Ånm Resolution. <i>Physical Review Letters</i> , 2008, 101, 016102. | 7.8 | 57 |
| 38 | Highly Efficient La ₂ O ₃ :Yb ³⁺ ,Tm ³⁺ Single-Band NIR-to-NIR Upconverting Microcrystals for Anti-Counterfeiting Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 39851-39859. | 8.0 | 57 |
| 39 | Charge Carrier Generation Followed by Triplet State Formation, Annihilation, and Carrier Recreation in PBDTTT-C/PC ₆₀ BM Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13509-13515. | 3.1 | 56 |
| 40 | Anisotropic energy transfer in crystalline chromophore assemblies. <i>Nature Communications</i> , 2018, 9, 4332. | 12.8 | 54 |
| 41 | Nonequilibrium Charge Dynamics in Organic Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1301743. | 19.5 | 50 |
| 42 | Optical Probes of Charge Generation and Recombination in Bulk Heterojunction Organic Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 2063-2070. | 2.2 | 48 |
| 43 | Spontaneous enhancement of the stable power conversion efficiency in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 670-682. | 10.3 | 47 |
| 44 | Inorganic fluorescent marker materials for identification of post-consumer plastic packaging. <i>Resources, Conservation and Recycling</i> , 2020, 161, 104976. | 10.8 | 47 |
| 45 | Highly Efficient One-Dimensional Triplet Exciton Transport in a Palladium-Porphyrin-Based Surface-Anchored Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15688-15697. | 8.0 | 46 |
| 46 | Approaches to Calculation of Exciton Interaction Energies for a Molecular Dimer. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19155-19162. | 2.6 | 44 |
| 47 | A de novo strategy for predictive crystal engineering to tune excitonic coupling. <i>Nature Communications</i> , 2019, 10, 2048. | 12.8 | 44 |
| 48 | Finely-tuned NIR-to-visible up-conversion in La ₂ O ₃ :Yb ³⁺ ,Er ³⁺ microcrystals with high quantum yield. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11010-11017. | 5.5 | 40 |
| 49 | Temperature- and Energy-Dependent Separation of Charge-Transfer States in PTB7-Based Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015, 119, 28309-28318. | 3.1 | 35 |
| 50 | Field-induced exciton dissociation in PTB7-based organic solar cells. <i>Physical Review B</i> , 2017, 95, . | 3.2 | 35 |
| 51 | Smartphone-Based Luminescent Thermometry via Temperature-Sensitive Delayed Fluorescence from Gd ₂ O ₂ S:Eu ³⁺ . <i>Advanced Optical Materials</i> , 2020, 8, 2000507. | 7.3 | 35 |
| 52 | Revealing the internal luminescence quantum efficiency of perovskite films via accurate quantification of photon recycling. <i>Matter</i> , 2021, 4, 1391-1412. | 10.0 | 35 |
| 53 | An up-conversion luminophore with high quantum yield and brightness based on BaF ₂ :Yb ³⁺ ,Er ³⁺ single crystals. <i>Journal of Materials Chemistry C</i> , 2021, 9, 3493-3503. | 5.5 | 34 |
| 54 | Recombination Dynamics of Charge Pairs in a Push-Pull Polyfluorene-Derivative. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4649-4653. | 2.6 | 30 |

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|----|---|-----|-----------|
| 55 | Control of charge generation and recombination in ternary polymer/polymer:fullerene photovoltaic blends using amorphous and semi-crystalline copolymers as donors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20329-20337. | 2.8 | 30 |
| 56 | Efficiency-Limiting Processes in Low-Bandgap Polymer:Perylene Diimide Photovoltaic Blends. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20077-20085. | 3.1 | 30 |
| 57 | <i>N</i> -Heteroacenes as a New Class of Non-Fullerene Electron Acceptors for Organic Bulk-Heterojunction Photovoltaic Devices. <i>Solar Rrl</i> , 2017, 1, 1700053. | 5.8 | 30 |
| 58 | Excitonically Coupled States in Crystalline Coordination Networks. <i>Chemistry - A European Journal</i> , 2017, 23, 14316-14322. | 3.3 | 30 |
| 59 | Triple cation mixed-halide perovskites for tunable lasers. <i>Optical Materials Express</i> , 2017, 7, 4082. | 3.0 | 30 |
| 60 | Nuclear cusp conditions for components of the molecular energy density relevant for density-functional theory. <i>Physical Review A</i> , 2000, 63, . | 2.5 | 29 |
| 61 | Dielectric switching of the nature of excited singlet state in a donor-acceptor-type polyfluorene copolymer. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 29 |
| 62 | The Impact of Donor-acceptor Phase Separation on the Charge Carrier Dynamics in pBTTT:PCBM Photovoltaic Blends. <i>Macromolecular Rapid Communications</i> , 2015, 36, 1054-1060. | 3.9 | 29 |
| 63 | Room-Temperature High-Efficiency Solid-State Triplet-triplet Annihilation Up-Conversion in Amorphous Poly(olefin sulfone)s. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8280-8286. | 8.0 | 29 |
| 64 | A fully planar solar pumped laser based on a luminescent solar collector. <i>Communications Physics</i> , 2020, 3, . | 5.3 | 28 |
| 65 | Time-Resolved Charge-Transfer State Emission in Organic Solar Cells: Temperature and Blend Composition Dependences of Interfacial Traps. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13516-13523. | 3.1 | 27 |
| 66 | Ratiometric Luminescent Thermometry with Excellent Sensitivity over a Broad Temperature Range Utilizing Thermally-assisted and Multiphoton Upconversion in Triply-doped $\text{La}^{2+}:\text{O}^{3+}:\text{Yb}^{3+}/\text{Er}^{3+}/\text{Nd}^{3+}$. <i>Advanced Optical Materials</i> , 2021, 9, 2001901. | 7.3 | 27 |
| 67 | Critical Power Density: A Metric To Compare the Excitation Power Density Dependence of Photon Upconversion in Different Inorganic Host Materials. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6799-6811. | 2.5 | 26 |
| 68 | Tuning Optical Properties by Controlled Aggregation: Electroluminescence Assisted by Thermally-activated Delayed Fluorescence from Thin Films of Crystalline Chromophores. <i>Chemistry - A European Journal</i> , 2020, 26, 17016-17020. | 3.3 | 25 |
| 69 | The Janus-faced chromophore: a donor-acceptor dyad with dual performance in photon up-conversion. <i>Chemical Communications</i> , 2018, 54, 1607-1610. | 4.1 | 24 |
| 70 | Lanthanide Sensitizers for Large Anti-Stokes Shift Near-Infrared-to-Visible Triplet-triplet Annihilation Photon Upconversion. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2477-2481. | 4.6 | 24 |
| 71 | Complete functional theory for the fermion density of independent particles subject to harmonic confinement in dimensions for an arbitrary number of closed shells. <i>Physical Review A</i> , 2002, 66, . | 2.5 | 23 |
| 72 | Effect of External Bias on Nongeminate Recombination in Polythiophene/Methanofullerene Organic Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1736-1741. | 4.6 | 23 |

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|----|---|------|-----------|
| 73 | A method for correcting the excitation power density dependence of upconversion emission due to laser-induced heating. <i>Optical Materials</i> , 2018, 82, 65-70. | 3.6 | 23 |
| 74 | Inkjet-Printed Photoluminescent Patterns of Aggregation-Induced-Emission Chromophores on Surface-Anchored Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25754-25762. | 8.0 | 23 |
| 75 | Anticounterfeiting Labels with Smartphone-Readable Dynamic Luminescent Patterns Based on Tailored Persistent Lifetimes in $Gd^{2+}/O^{2+}/S:Eu^{3+}/Ti^{4+}$. <i>Advanced Materials Technologies</i> , 2021, 6, 2100047. | 5.8 | 23 |
| 76 | Experimental validation of a modeling framework for upconversion enhancement in 1D-photonic crystals. <i>Nature Communications</i> , 2021, 12, 104. | 12.8 | 22 |
| 77 | Exciton versus free carrier emission: Implications for photoluminescence efficiency and amplified spontaneous emission thresholds in quasi-2D and 3D perovskites. <i>Materials Today</i> , 2021, 49, 35-47. | 14.2 | 22 |
| 78 | Relating Structure to Efficiency in Surfactant-Free Polymer/Fullerene Nanoparticle-Based Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42986-42995. | 8.0 | 21 |
| 79 | Nonrelativistic exchange-energy density and exchange potential in the lowest order of the $1/Z$ expansion for ten-electron atomic ions. <i>Physical Review A</i> , 2000, 62, . | 2.5 | 20 |
| 80 | Interface disorder in large single- and multi-shell upconverting nanocrystals. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1164-1172. | 5.5 | 20 |
| 81 | An enhanced energy migration strategy in upconverting nanocrystals: color-tuning with high quantum yield. <i>Journal of Materials Chemistry C</i> , 2019, 7, 7371-7377. | 5.5 | 19 |
| 82 | Towards a differential equation for the nonrelativistic ground-state electron density of the He-like sequence of atomic ions. <i>Physical Review A</i> , 2005, 71, . | 2.5 | 18 |
| 83 | Two Channels of Charge Generation in Perylene Monoimide Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300640. | 19.5 | 18 |
| 84 | Enhancing the photoluminescence of surface anchored metal-organic frameworks: mixed linkers and efficient acceptors. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11564-11576. | 2.8 | 18 |
| 85 | Interplay of structural dynamics and electronic effects in an engineered assembly of pentacene in a metal-organic framework. <i>Chemical Science</i> , 2021, 12, 4477-4483. | 7.4 | 18 |
| 86 | Interface Pattern Engineering in Core-Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties. <i>Small</i> , 2021, 17, e2104441. | 10.0 | 17 |
| 87 | Room-Temperature Phase Demixing in Bulk Heterojunction Layers of Solution-Processed Organic Photodetectors: the Effect of Active Layer Ageing on the Device Electro-optical Properties. <i>Advanced Functional Materials</i> , 2011, 21, 1355-1363. | 14.9 | 16 |
| 88 | Guest-responsive polaritons in a porous framework: chromophoric sponges in optical QED cavities. <i>Chemical Science</i> , 2020, 11, 7972-7978. | 7.4 | 16 |
| 89 | r- and p-space electron densities and related kinetic and exchange energies in terms of states alone for the leading term in the $1/Z$ expansion for nonrelativistic closed-shell atomic ions. <i>Physical Review A</i> , 2001, 63, . | 2.5 | 15 |
| 90 | Empirically based device modeling of bulk heterojunction organic photovoltaics. <i>Journal of Applied Physics</i> , 2013, 113, 154506. | 2.5 | 15 |

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|-----|--|------|-----------|
| 91 | Investigations of singlet and triplet diffusion in thermally activated delayed-fluorescence emitters: Implications for hyperfluorescence. <i>Physical Review B</i> , 2019, 100, . | 3.2 | 15 |
| 92 | High Quantum Yield Single-Band Green Upconversion in $\text{La}_{2}\text{O}_{3}:\text{Yb}^{3+}$, Ho^{3+} Microcrystals for Anticounterfeiting and Plastic Recycling. <i>Particle and Particle Systems Characterization</i> , 2019, 36, 1800462. | 2.3 | 15 |
| 93 | Observing Charge Dynamics in Surface Reactions by Time-Resolved Stark Effects. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9171-9177. | 3.1 | 14 |
| 94 | Comment on "Room-Temperature Continuous-Wave Operation of Organometal Halide Perovskite Lasers". <i>ACS Nano</i> , 2019, 13, 12257-12258. | 14.6 | 14 |
| 95 | BODIPY "pyrene donor" acceptor sensitizers for triplet-triplet annihilation upconversion: the impact of the BODIPY-core on upconversion efficiency. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3568-3578. | 2.8 | 14 |
| 96 | Dual-color dynamic anti-counterfeiting labels with persistent emission after visible excitation allowing smartphone authentication. <i>Scientific Reports</i> , 2022, 12, 2100. | 3.3 | 14 |
| 97 | Bimolecular and Auger Recombination in Phase-Stable Perovskite Thin Films from Cryogenic to Room Temperature and Their Effect on the Amplified Spontaneous Emission Threshold. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2293-2298. | 4.6 | 13 |
| 98 | Bright constant color upconversion based on dual 980 and 1550 nm excitation of $\text{SrF}_2:\text{Yb}^{3+}$, Er^{3+} and $\text{I}^2\text{-NaYF}_4:\text{Yb}^{3+}$, Er^{3+} micropowders considerations for persistence of vision displays. <i>Optical Materials</i> , 2021, 111, 110598. | 3.6 | 12 |
| 99 | Dependence of the π -electron eigenvalue sum on the number of atoms in almost spherical C cages. <i>Physical Review A</i> , 2002, 66, . | 2.5 | 11 |
| 100 | High-Brightness Perovskite Light-Emitting Diodes Using a Printable Silver Microflake Contact. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 11428-11437. | 8.0 | 11 |
| 101 | How free exciton exciton annihilation lets bound exciton emission dominate the photoluminescence of 2D-perovskites under high-fluence pulsed excitation at cryogenic temperatures. <i>Journal of Applied Physics</i> , 2021, 129, . | 2.5 | 11 |
| 102 | Perovskite Solar Cells: Record Open-Circuit Voltage Wide-Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure (<i>Adv. Energy Mater.</i> 21/2019). <i>Advanced Energy Materials</i> , 2019, 9, 1970079. | 19.5 | 10 |
| 103 | Solar Pumping of Fiber Lasers with Solid-State Luminescent Concentrators: Design Optimization by Ray Tracing. <i>Advanced Optical Materials</i> , 2021, 9, 2100479. | 7.3 | 10 |
| 104 | Correlative In Situ Multichannel Imaging for Large-Area Monitoring of Morphology Formation in Solution-Processed Perovskite Layers. <i>Solar Rrl</i> , 2022, 6, 2100353. | 5.8 | 9 |
| 105 | Unclonable Anti-Counterfeiting Labels Based on Microlens Arrays and Luminescent Microparticles. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 9 |
| 106 | Propagator and Slater sum in one-body potential theory. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 237, 265-273. | 1.5 | 8 |
| 107 | Coulomb explosion of deuterium cationic clusters. <i>Physical Review A</i> , 2003, 68, . | 2.5 | 8 |
| 108 | Facile loading of thin-film surface-anchored metal-organic frameworks with Lewis-base guest molecules. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1888-1894. | 5.9 | 8 |

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|-----|---|------|-----------|
| 109 | Highly photoluminescent and stable silicon nanocrystals functionalized <i>via</i> microwave-assisted hydrosilylation. RSC Advances, 2018, 8, 9979-9984. | 3.6 | 8 |
| 110 | Reaction of porphyrin-based surface-anchored metal-organic frameworks caused by prolonged illumination. Physical Chemistry Chemical Physics, 2018, 20, 29142-29151. | 2.8 | 8 |
| 111 | Method for accurate experimental determination of singlet and triplet exciton diffusion between thermally activated delayed fluorescence molecules. Chemical Science, 2021, 12, 1121-1125. | 7.4 | 8 |
| 112 | Parallel Pool Analysis of Transient Spectroscopy Reveals Origins of and Perspectives for ZnO Hybrid Solar Cell Performance Enhancement Using Semiconducting Surfactants. Journal of Physical Chemistry Letters, 2012, 3, 2665-2670. | 4.6 | 7 |
| 113 | Identifying Charge-Transfer States in Polymer:Fullerene Heterojunctions by Their Emission Polarization Anisotropy. Journal of Physical Chemistry C, 2017, 121, 6357-6364. | 3.1 | 7 |
| 114 | Solution-processed and evaporated C60 interlayers for improved charge transport in perovskite photovoltaics. Organic Electronics, 2020, 77, 105526. | 2.6 | 7 |
| 115 | Interpreting the Time-Resolved Photoluminescence of Quasi-2D Perovskites. Advanced Materials Interfaces, 2021, 8, 2101326. | 3.7 | 7 |
| 116 | Nonrelativistic variationally optimized exchange potentials for Ne-like atomic ions having large atomic number. Physical Review A, 2003, 68, . | 2.5 | 6 |
| 117 | Density functional crystal orbital study of cyano-substituted poly(para-phenylene-vinylene) and poly(quinoxaline-vinylene). International Journal of Quantum Chemistry, 2006, 106, 1912-1923. | 2.0 | 6 |
| 118 | Phonon density of states in lanthanide-based nanocrystals. Physical Review B, 2020, 102, . | 3.2 | 6 |
| 119 | Lasing from Laminated Quasi-2D/3D Perovskite Planar Heterostructures. Advanced Functional Materials, 2022, 32, . | 14.9 | 6 |
| 120 | Exchange potential via functional differentiation of the Dirac idempotent density matrix. Physical Review A, 2004, 69, . | 2.5 | 5 |
| 121 | Rare-earth coordination polymers with multimodal luminescence on the nano-, micro-, and milli-second time scales. IScience, 2021, 24, 102207. | 4.1 | 5 |
| 122 | Improved photon absorption in dye-functionalized silicon nanocrystals synthesized <i>via</i> microwave-assisted hydrosilylation. Dalton Transactions, 2020, 49, 2290-2299. | 3.3 | 5 |
| 123 | Light Management for Enhancing Optical Gain in a Solar-Pumped Fiber Laser Employing a Solid-State Luminescent Solar Concentrator. Advanced Photonics Research, 2022, 3, . | 3.6 | 5 |
| 124 | Momentum density and its Fourier transform: Relation to the first-order density matrix and some scaling properties. Physical Review A, 2001, 64, . | 2.5 | 4 |
| 125 | Ten-Electron Central Field Problem: An Inhomogeneous Electron Liquid. Physics and Chemistry of Liquids, 2002, 40, 47-56. | 1.2 | 4 |
| 126 | Exactly Solvable Model Mimicking the H2 Molecule in the Limit of Large Nuclear Masses. Journal of Mathematical Chemistry, 2007, 42, 603-615. | 1.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 127 | Expanding the Angle of Incidence Tolerance of Unclonable Anticounterfeiting Labels Based on Microlens Arrays and Luminescent Microparticles. <i>Advanced Photonics Research</i> , 0, , 2100202. | 3.6 | 4 |
| 128 | Off-diagonal properties of the Feynman propagator and the Green function for a bare Coulomb field. <i>Physical Review A</i> , 2004, 69, . | 2.5 | 3 |
| 129 | Charge generation in polymer:perylene diimide blends probed by Vis-NIR broadband transient absorption pump-probe spectroscopy. , 2013, , . | | 3 |
| 130 | Synthesis of dipolar molecular rotors as linkers for metal-organic frameworks. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 1331-1338. | 2.2 | 3 |
| 131 | Continuous Wave Amplified Spontaneous Emission in Phase-Stable Triple Cation Lead Halide Perovskite Thin Films. , 2019, , . | | 3 |
| 132 | Sensitizing TADF Absorption Using Variable Length Oligo(phenylene ethynylene) Antennae. <i>Frontiers in Chemistry</i> , 2020, 8, 126. | 3.6 | 3 |
| 133 | Many-fermion systems: Differential equations and kinetic energy functionals for different confining potentials. <i>International Journal of Quantum Chemistry</i> , 2003, 91, 119-125. | 2.0 | 2 |
| 134 | Recent progress in constructing nonlocal energy density functionals. <i>International Journal of Quantum Chemistry</i> , 2003, 92, 192-204. | 2.0 | 2 |
| 135 | A 1.53 μm colloidal nanocrystal quantum dot laser. , 2006, , . | | 2 |
| 136 | Charge Carrier and Exciton Dynamics in Perovskites Revealed by Time-Integrated Photoluminescence after Double-Pulse Excitation. <i>Advanced Materials Technologies</i> , 0, , 2200152. | 5.8 | 2 |
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