Bryce Richards

List of Publications by Year
in descending order

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315 papers	14,496 citations	22099 59 h-index	26548 107 g-index
320 all docs	320 docs citations	320 times ranked	12975 citing authors

#	Article	IF	Citations
1	Correlative In Situ Multichannel Imaging for Largeâ€Area Monitoring of Morphology Formation in Solutionâ€Processed Perovskite Layers. Solar Rrl, 2022, 6, 2100353.	3.1	9
2	Optimization of SnO₂ electron transport layer for efficient planar perovskite solar cells with very low hysteresis. Materials Advances, 2022, 3, 456-466.	2.6	20
3	Noble-metal-free photosensitizers for continuous-flow photochemical oxidation of steroid hormone micropollutants under sunlight. Journal of Membrane Science, 2022, 642, 119981.	4.1	5
4	Single crystal monolithic upconverter solar cell device tandems with integrated optics. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 239.	0.9	5
5	Upscaling of perovskite solar modules: The synergy of fully evaporated layer fabrication and allâ€laserâ€scribed interconnections. Progress in Photovoltaics: Research and Applications, 2022, 30, 360-373.	4.4	35
6	Influence of Wind Speed on Volcano Ash Removal From Self-Cleaning Cover Films Dedicated for Photovoltaics. IEEE Journal of Photovoltaics, 2022, 12, 453-460.	1.5	1
7	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	11.7	66
8	BODIPYâ€“pyrene donorâ€“acceptor sensitizers for tripletâ€“triplet annihilation upconversion: the impact of the BODIPY-core on upconversion efficiency. Physical Chemistry Chemical Physics, 2022, 24, 3568-3578.	1.3	14
9	Cubic versus hexagonal â€“ phase, size and morphology effects on the photoluminescence quantum yield of NaGdF₄:Er³⁺/Yb³⁺ upconverting nanoparticles. Nanoscale, 2022, 14, 1492-1504.	2.8	21
10	Perovskite Solar Cells with Vivid, Angleâ€Invariant, and Customizable Inkjetâ€Printed Colorization for Buildingâ€Integrated Photovoltaics. Solar Rrl, 2022, 6, .	3.1	6
11	Renewable energy powered membrane technology: Energy consumption analysis of ultrafiltration backwash configurations. Separation and Purification Technology, 2022, 287, 120388.	3.9	7
12	Dual-color dynamic anti-counterfeiting labels with persistent emission after visible excitation allowing smartphone authentication. Scientific Reports, 2022, 12, 2100.	1.6	14
13	Drying and Coating of Perovskite Thin Films: How to Control the Thin Film Morphology in Scalable Dynamic Coating Systems. ACS Applied Materials & Interfaces, 2022, 14, 11300-11312.	4.0	12
14	Unclonable Antiâ€Counterfeiting Labels Based on Microlens Arrays and Luminescent Microparticles. Advanced Optical Materials, 2022, 10, .	3.6	9
15	Frontiers in Photonics Spot Light. Frontiers in Photonics, 2022, 3, .	1.1	0
16	Light Management for Enhancing Optical Gain in a Solarâ€Pumped Fiber Laser Employing a Solidâ€State Luminescent Solar Concentrator. Advanced Photonics Research, 2022, 3, .	1.7	5
17	Scalable two-terminal all-perovskite tandem solar modules with a 19.1% efficiency. Nature Energy, 2022, 7, 620-630.	19.8	58
18	Perovskite Solar Cells with Allâ€Inkjetâ€Printed Absorber and Charge Transport Layers. Advanced Materials Technologies, 2021, 6, 2000271.	3.0	72

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19	Renewable energy powered membrane technology: System resilience under solar irradiance fluctuations during the treatment of fluoride-rich natural waters by different nanofiltration/reverse osmosis membranes. Journal of Membrane Science, 2021, 617, 118452.	4.1	31
20	Method for accurate experimental determination of singlet and triplet exciton diffusion between thermally activated delayed fluorescence molecules. Chemical Science, 2021, 12, 1121-1125.	3.7	8
21	Bright constant color upconversion based on dual 980 and 1550Ânm excitation of SrF2:Yb3+, Er3+ and Î²-NaYF4:Yb3+, Er3+ micropowdersâ€• considerations for persistence of vision displays. Optical Materials, 2021, 111, 110598.	1.7	12
22	Renewable Energy Powered Membrane Technology: Electrical Energy Storage Options for a Photovoltaic-Powered Brackish Water Desalination System. Applied Sciences (Switzerland), 2021, 11, 856.	1.3	3
23	Coordination mechanism of cyanine dyes on the surface of core@active shell Î²-NaGdF₄:Yb³⁺,Er³⁺ nanocrystals and its role in enhancing upconversion luminescence. Journal of Materials Chemistry C, 2021, 9, 16313-16323.	2.7	10
24	Interplay of structural dynamics and electronic effects in an engineered assembly of pentacene in a metalâ€“organic framework. Chemical Science, 2021, 12, 4477-4483.	3.7	18
25	Experimental validation of a modeling framework for upconversion enhancement in 1D-photonic crystals. Nature Communications, 2021, 12, 104.	5.8	22
26	Rare-earth coordination polymers with multimodal luminescence on the nano-, micro-, and milli-second time scales. IScience, 2021, 24, 102207.	1.9	5
27	Bimolecular and Auger Recombination in Phase-Stable Perovskite Thin Films from Cryogenic to Room Temperature and Their Effect on the Amplified Spontaneous Emission Threshold. Journal of Physical Chemistry Letters, 2021, 12, 2293-2298.	2.1	13
28	Photodegradation of Triple-Cation Perovskite Solar Cells: The Role of Spectrum and Bias Conditions. ACS Applied Energy Materials, 2021, 4, 3083-3092.	2.5	26
29	How free excitonâ€“exciton annihilation lets bound exciton emission dominate the photoluminescence of 2D-perovskites under high-fluence pulsed excitation at cryogenic temperatures. Journal of Applied Physics, 2021, 129, .	1.1	11
30	Phase evolution during annealing of low-temperature co-evaporated precursors for CZTSe solar cell absorbers. Journal of Applied Physics, 2021, 129, .	1.1	3
31	Revealing the internal luminescence quantum efficiency of perovskite films via accurate quantification of photon recycling. Matter, 2021, 4, 1391-1412.	5.0	35
32	Anticounterfeiting Labels with Smartphoneâ€Readable Dynamic Luminescent Patterns Based on Tailored Persistent Lifetimes in Gd₂O₂S:Eu³⁺/Ti⁴⁺. Advanced Materials Technologies, 2021, 6, 2100047.	3.0	23
33	Solar Pumping of Fiber Lasers with Solidâ€State Luminescent Concentrators: Design Optimization by Ray Tracing. Advanced Optical Materials, 2021, 9, 2100479.	3.6	10
34	In situ reflectance- photoluminescence imaging on solution-processed perovskite thin-films. , 2021, , .		0
35	Exciton versus free carrier emission: Implications for photoluminescence efficiency and amplified spontaneous emission thresholds in quasi-2D and 3D perovskites. Materials Today, 2021, 49, 35-47.	8.3	22
36	Photon Upconversion for Photovoltaics and Photocatalysis: AÂCriticalÂReview. Chemical Reviews, 2021, 121, 9165-9195.	23.0	190

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37	Photodegradation of steroid-hormone micropollutants in a flow-through membrane reactor coated with Pd(II)-porphyrin. Applied Catalysis B: Environmental, 2021, 291, 120097.	10.8	21
38	An up-conversion luminophore with high quantum yield and brightness based on BaF₂:Yb³⁺,Er³⁺ single crystals. Journal of Materials Chemistry C, 2021, 9, 3493-3503.	2.7	34
39	Ratiometric Luminescent Thermometry with Excellent Sensitivity over a Broad Temperature Range Utilizing Thermallyâ€Assisted and Multiphoton Upconversion in Triplyâ€Doped La₂O₃:Yb³⁺/Er³⁺/Nd³⁺. Advanced Optical Materials, 2021, 9, 2001901.	3.6	27
40	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties. Small, 2021, 17, e2104441.	5.2	17
41	Harvesting Sub-bandgap Photons via Upconversion for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 54874-54883.	4.0	24
42	Elucidating the role of metal-ion co-doping towards boosting upconversion luminescence in gadolinium vanadate. Journal of Materials Chemistry C, 2021, 9, 16709-16720.	2.7	10
43	Crystalline assembly of perylene in metalâ€“organic framework thin film: J-aggregate or excimer? Insight into the electronic structure. Journal of Physics Condensed Matter, 2021, 33, 034001.	0.7	1
44	Interpreting the Timeâ€Resolved Photoluminescence of Quasiâ€2D Perovskites. Advanced Materials Interfaces, 2021, 8, 2101326.	1.9	7
45	Interface Pattern Engineering in Coreâ€Shell Upconverting Nanocrystals: Shedding Light on Critical Parameters and Consequences for the Photoluminescence Properties (Small 47/2021). Small, 2021, 17, 2170246.	5.2	0
46	Solution-processed and evaporated C60 interlayers for improved charge transport in perovskite photovoltaics. Organic Electronics, 2020, 77, 105526.	1.4	7
47	Laminated Perovskite Photovoltaics: Enabling Novel Layer Combinations and Device Architectures. Advanced Functional Materials, 2020, 30, 1907481.	7.8	33
48	Energy yield of bifacial textured perovskite/silicon tandem photovoltaic modules. Solar Energy Materials and Solar Cells, 2020, 208, 110367.	3.0	45
49	Renewable energy powered membrane technology: Energy buffering control system for improved resilience to periodic fluctuations of solar irradiance. Renewable Energy, 2020, 149, 877-889.	4.3	12
50	Inkjetâ€Printed Micrometerâ€Thick Perovskite Solar Cells with Large Columnar Grains. Advanced Energy Materials, 2020, 10, 1903184.	10.2	142
51	Vacuumâ€Assisted Growth of Lowâ€Bandgap Thin Films (FA_{0.8}MA_{0.2}Sn_{0.5}Pb_{0.5}I₃) for Allâ€Perovskite Tandem Solar Cells. Advanced Energy Materials, 2020, 10, 1902583.	10.2	60
52	Spontaneous enhancement of the stable power conversion efficiency in perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 670-682.	5.2	47
53	Impact of silver incorporation at the back contact of Kesterite solar cells on structural and device properties. Thin Solid Films, 2020, 709, 138223.	0.8	7
54	Smartphoneâ€Based Luminescent Thermometry via Temperatureâ€Sensitive Delayed Fluorescence from Gd₂O₂S:Eu³⁺. Advanced Optical Materials, 2020, 8, 2000507.	3.6	35

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55	Guest-responsive polaritons in a porous framework: chromophoric sponges in optical QED cavities. Chemical Science, 2020, 11, 7972-7978.	3.7	16
56	Determination of Upconversion Quantum Yields Using Charge-Transfer State Fluorescence of Heavy-Atom-Free Sensitizer as a Self-Reference. Journal of Physical Chemistry Letters, 2020, 11, 6560-6566.	2.1	14
57	Enhancing Singlet Oxygen Generation in Conjugates of Silicon Nanocrystals and Organic Photosensitizers. Frontiers in Chemistry, 2020, 8, 567.	1.8	7
58	Chemical vapor deposited polymer layer for efficient passivation of planar perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 20122-20132.	5.2	27
59	Tuning Optical Properties by Controlled Aggregation: Electroluminescence Assisted by Thermallyâ€Activated Delayed Fluorescence from Thin Films of Crystalline Chromophores. Chemistry - A European Journal, 2020, 26, 17016-17020.	1.7	25
60	Phonon density of states in lanthanide-based nanocrystals. Physical Review B, 2020, 102, .	1.1	6
61	Separation and degradation detection of nanogram-per-litre concentrations of radiolabelled steroid hormones using combined liquid chromatography and flow scintillation analysis. Scientific Reports, 2020, 10, 7095.	1.6	11
62	Flexible Inkjet-Printed Triple Cation Perovskite X-ray Detectors. ACS Applied Materials & Interfaces, 2020, 12, 15774-15784.	4.0	86
63	2D/3D Heterostructure for Semitransparent Perovskite Solar Cells with Engineered Bandgap Enables Efficiencies Exceeding 25% in Fourâ€Terminal Tandems with Silicon and CIGS. Advanced Functional Materials, 2020, 30, 1909919.	7.8	123
64	Toward Stable Perovskite Solar Cell Architectures: Robustness Against Temperature Variations of Real-World Conditions. IEEE Journal of Photovoltaics, 2020, 10, 777-784.	1.5	6
65	Lanthanide Sensitizers for Large Anti-Stokes Shift Near-Infrared-to-Visible Tripletâ€“Triplet Annihilation Photon Upconversion. Journal of Physical Chemistry Letters, 2020, 11, 2477-2481.	2.1	24
66	A fully planar solar pumped laser based on a luminescent solar collector. Communications Physics, 2020, 3, .	2.0	28
67	Photocatalytic degradation of organic dye via atomic layer deposited TiO2 on ceramic membranes in single-pass flow-through operation. Journal of Membrane Science, 2020, 604, 118015.	4.1	68
68	Inorganic fluorescent marker materials for identification of post-consumer plastic packaging. Resources, Conservation and Recycling, 2020, 161, 104976.	5.3	47
69	Sensitizing TADF Absorption Using Variable Length Oligo(phenylene ethynylene) Antennae. Frontiers in Chemistry, 2020, 8, 126.	1.8	3
70	Upconversion properties of SrF₂:Yb³⁺,Er³⁺ single crystals. Journal of Materials Chemistry C, 2020, 8, 4093-4101.	2.7	58
71	High-Brightness Perovskite Light-Emitting Diodes Using a Printable Silver Microflake Contact. ACS Applied Materials & Interfaces, 2020, 12, 11428-11437.	4.0	11
72	Experimental Determination of Complex Optical Constants of Airâ€Stable Inorganic CsPbI₃ Perovskite Thin Films. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000070.	1.2	15

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73	High Efficiency Perovskiteâ€Silicon Tandem Solar Cells: Effect of Surface Coating versus Bulk Incorporation of 2D Perovskite. Advanced Energy Materials, 2020, 10, 1903553.	10.2	110
74	Photoluminescent Tracer Effects on Thermoplastic Polymer Recycling. , 2020, , 1-13.		2
75	Hot-embossed microcone-textured fluoropolymer as self-cleaning and anti-reflective photovoltaic module covers. Solar Energy Materials and Solar Cells, 2020, 214, 110582.	3.0	19
76	Improved photon absorption in dye-functionalized silicon nanocrystals synthesized via microwave-assisted hydrosilylation. Dalton Transactions, 2020, 49, 2290-2299.	1.6	5
77	Nanostructured front electrodes for perovskite/c-Si tandem photovoltaics. Optics Express, 2020, 28, 8878.	1.7	8
78	Determination of complex optical constants and photovoltaic device design of all-inorganic $CsPbBr_3$ perovskite thin films. Optics Express, 2020, 28, 15706.	1.7	40
79	Progress on Perovskite Solar Cells with All-Inkjet-Printed Absorber and Extraction Layers. , 2020, , .		1
80	Efficient Photocatalytic Removal of Methylene Blue Using a Metalloporphyrinâ€“Poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 31763-31776.	4.0	31
81	Renewable energy powered membrane technology: A review of the reliability of photovoltaic-powered membrane system components for brackish water desalination. Applied Energy, 2019, 253, 113524.	5.1	56
82	Critical Power Density: A Metric To Compare the Excitation Power Density Dependence of Photon Upconversion in Different Inorganic Host Materials. Journal of Physical Chemistry A, 2019, 123, 6799-6811.	1.1	26
83	Perovskite/Hole Transport Layer Interface Improvement by Solvent Engineering of Spiro-OMeTAD Precursor Solution. ACS Applied Materials & Interfaces, 2019, 11, 44802-44810.	4.0	28
84	Drying Dynamics of Solutionâ€Processed Perovskite Thinâ€Film Photovoltaics: In Situ Characterization, Modeling, and Process Control. Advanced Energy Materials, 2019, 9, 1901581.	10.2	42
85	Liquid Glass for Photovoltaics: Multifunctional Front Cover Glass for Solar Modules. ACS Applied Materials & Interfaces, 2019, 11, 35015-35022.	4.0	13
86	Investigations of singlet and triplet diffusion in thermally activated delayed-fluorescence emitters: Implications for hyperfluorescence. Physical Review B, 2019, 100, .	1.1	15
87	Interface disorder in large single- and multi-shell upconverting nanocrystals. Journal of Materials Chemistry C, 2019, 7, 1164-1172.	2.7	20
88	Light Management: A Key Concept in High-Efficiency Perovskite/Silicon Tandem Photovoltaics. Journal of Physical Chemistry Letters, 2019, 10, 3159-3170.	2.1	81
89	CZTSe solar cells prepared by co-evaporation of multilayer Cuâ€“Sn/Cu,Zn,Sn,Se/ZnSe/Cu,Zn,Sn,Se stacks. Physica Scripta, 2019, 94, 105007.	1.2	8
90	Efficient All-Evaporated pin-Perovskite Solar Cells: A Promising Approach Toward Industrial Large-Scale Fabrication. IEEE Journal of Photovoltaics, 2019, 9, 1249-1257.	1.5	33

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91	Perovskite Solar Cells: Record Openâ€Circuit Voltage Wideâ€Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure (Adv. Energy Mater. 21/2019). Advanced Energy Materials, 2019, 9, 1970079.	10.2	10
92	An enhanced energy migration strategy in upconverting nanocrystals: color-tuning with high quantum yield. Journal of Materials Chemistry C, 2019, 7, 7371-7377.	2.7	19
93	Enhanced Photoluminescence in Quantum Dotsâ€“Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. Advanced Optical Materials, 2019, 7, 1900223.	3.6	39
94	Record Openâ€Circuit Voltage Wideâ€Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure. Advanced Energy Materials, 2019, 9, 1803699.	10.2	325
95	Efficient Ytterbium Near-Infrared Luminophore Based on a Nondeuterated Ligand. Inorganic Chemistry, 2019, 58, 6959-6965.	1.9	15
96	A de novo strategy for predictive crystal engineering to tune excitonic coupling. Nature Communications, 2019, 10, 2048.	5.8	44
97	Microâ€cone textures for improved light inâ€coupling and retroreflectionâ€inspired light trapping at the front surface of solar modules. Progress in Photovoltaics: Research and Applications, 2019, 27, 593-602.	4.4	16
98	Renewable energy powered membrane technology: Experimental investigation of system performance with variable module size and fluctuating energy. Separation and Purification Technology, 2019, 221, 64-73.	3.9	16
99	Photovoltaic Devices: Electronâ€Beamâ€Evaporated Nickel Oxide Hole Transport Layers for Perovskiteâ€Based Photovoltaics (Adv. Energy Mater. 12/2019). Advanced Energy Materials, 2019, 9, 1970035.	10.2	3
100	Coated and Printed Perovskites for Photovoltaic Applications. Advanced Materials, 2019, 31, e1806702.	11.1	146
101	Highly Efficient One-Dimensional Triplet Exciton Transport in a Palladiumâ€“Porphyrin-Based Surface-Anchored Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2019, 11, 15688-15697.	4.0	46
102	Structureâ€“Property Relationships in Lanthanideâ€Doped Upconverting Nanocrystals: Recent Advances in Understanding Coreâ€“Shell Structures. Advanced Materials, 2019, 31, e1900623.	11.1	102
103	Facile synthesis of mono-disperse sub-20 nm NaY(WO₄)₂:Er³⁺,Yb³⁺ upconversion nanoparticles: a new choice for nanothermometry. Journal of Materials Chemistry C, 2019, 7, 2971-2977.	2.7	112
104	Continuous wave amplified spontaneous emission in phase-stable lead halide perovskites. Nature Communications, 2019, 10, 988.	5.8	107
105	Enhanced color conversion of quantum dots - polymer hybrid films in light emitting diodes. , 2019, , .		0
106	Nanophotonic perovskite layers for enhanced current generation and mitigation of lead in perovskite solar cells. Solar Energy Materials and Solar Cells, 2019, 192, 65-71.	3.0	50
107	High Quantum Yield Singleâ€Band Green Upconversion in La₂O₃:Yb³⁺, Ho³⁺ Microcrystals for Anticounterfeiting and Plastic Recycling. Particle and Particle Systems Characterization, 2019, 36, 1800462.	1.2	15
108	Scalable Processing of Low-Temperature TiO₂ Nanoparticles for High-Efficiency Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 47-58.	2.5	33

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109	Self-cleaning performance of superhydrophobic hot-embossed fluoropolymer films for photovoltaic modules. Solar Energy Materials and Solar Cells, 2019, 189, 188-196.	3.0	59
110	Energy yield of all thinâ€film perovskite/CIGS tandem solar modules. Progress in Photovoltaics: Research and Applications, 2019, 27, 290-298.	4.4	31
111	Design and Color Flexibility for Inkjet-Printed Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 764-769.	2.5	32
112	Electronâ€Beamâ€Evaporated Nickel Oxide Hole Transport Layers for Perovskiteâ€Based Photovoltaics. Advanced Energy Materials, 2019, 9, 1802995.	10.2	122
113	Methodology of energy yield modelling of perovskite-based multi-junction photovoltaics. Optics Express, 2019, 27, A507.	1.7	55
114	Exposure-dependent refractive index of Nanoscribe IP-Dip photoresist layers. Optics Letters, 2019, 44, 29.	1.7	63
115	Nanophotonic perovskite thin-film solar cells by thermal nano-imprint lithography. , 2019, , .		0
116	Superhydrophobic self-cleaning cover sheets for photovoltaic modules. , 2019, , .		0
117	Continuous Wave Amplified Spontaneous Emission from Mixed Cation Perovskite devices. , 2019, , .		0
118	Upconversion performance enhancement in real 1D photonic crystals: simulation, experiment and perspectives for photovoltaics. , 2019, , .		0
119	Temperature Variation-Induced Performance Decline of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 16390-16399.	4.0	89
120	Inkjet-Printed Triple Cation Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 1834-1839.	2.5	156
121	Freeform surface invisibility cloaking of interconnection lines in thin-film photovoltaic modules. Solar Energy Materials and Solar Cells, 2018, 182, 294-301.	3.0	7
122	Self-Cleaning Microcavity Array for Photovoltaic Modules. ACS Applied Materials & Interfaces, 2018, 10, 2929-2936.	4.0	17
123	Up-conversion quantum yields of SrF₂:Yb³⁺,Er³⁺ sub-micron particles prepared by precipitation from aqueous solution. Journal of Materials Chemistry C, 2018, 6, 598-604.	2.7	61
124	Enhancing the photoluminescence of surface anchored metalâ€“organic frameworks: mixed linkers and efficient acceptors. Physical Chemistry Chemical Physics, 2018, 20, 11564-11576.	1.3	18
125	The Janus-faced chromophore: a donorâ€“acceptor dyad with dual performance in photon up-conversion. Chemical Communications, 2018, 54, 1607-1610.	2.2	24
126	Wide-range non-contact fluorescence intensity ratio thermometer based on Yb³⁺/Nd³⁺co-doped La₂O₃microcrystals operating from 290 to 1230 K. Journal of Materials Chemistry C, 2018, 6, 4163-4170.	2.7	127

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127	Highly photoluminescent and stable silicon nanocrystals functionalized via microwave-assisted hydrosilylation. RSC Advances, 2018, 8, 9979-9984.	1.7	8
128	Co-precipitation synthesis and photoluminescence properties of BaTiF₆:Mn⁴⁺: an efficient red phosphor for warm white LEDs. Journal of Materials Chemistry C, 2018, 6, 127-133.	2.7	60
129	Energy yield modelling of perovskite/silicon two-terminal tandem PV modules with flat and textured interfaces. Sustainable Energy and Fuels, 2018, 2, 2754-2761.	2.5	61
130	Reaction of porphyrin-based surface-anchored metalâ€“organic frameworks caused by prolonged illumination. Physical Chemistry Chemical Physics, 2018, 20, 29142-29151.	1.3	8
131	Renewable energy-powered membrane technology in Tanzanian communities. Npj Clean Water, 2018, 1, .	3.1	14
132	Highly Efficient La₂O₃:Yb³⁺,Tm³⁺ Single-Band NIR-to-NIR Upconverting Microcrystals for Anti-Counterfeiting Applications. ACS Applied Materials & Interfaces, 2018, 10, 39851-39859.	4.0	57
133	Anisotropic energy transfer in crystalline chromophore assemblies. Nature Communications, 2018, 9, 4332.	5.8	54
134	A method for correcting the excitation power density dependence of upconversion emission due to laser-induced heating. Optical Materials, 2018, 82, 65-70.	1.7	23
135	Photocurrent enhancement for ultrathin crystalline silicon solar cells via a bioinspired polymeric nanofur film with high forward scattering. Solar Energy Materials and Solar Cells, 2018, 186, 105-110.	3.0	16
136	Enhanced upconversion in one-dimensional photonic crystals: a simulation-based assessment within realistic material and fabrication constraints. Optics Express, 2018, 26, 7537.	1.7	17
137	Upconversion solar cell measurements under real sunlight. Optical Materials, 2018, 84, 389-395.	1.7	51
138	Inkjet-Printed Photoluminescent Patterns of Aggregation-Induced-Emission Chromophores on Surface-Anchored Metalâ€“Organic Frameworks. ACS Applied Materials & Interfaces, 2018, 10, 25754-25762.	4.0	23
139	Absolute upconversion quantum yields of blue-emitting LiYF₄:Yb³⁺,Tm³⁺ upconverting nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 22556-22562.	1.3	66
140	Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. Physical Review B, 2018, 98, .	1.1	31
141	Geometrical concentration for enhanced up-conversion: A review of recent results in energy and biomedical applications. Optical Materials, 2018, 83, 47-54.	1.7	12
142	Spectral Dependence of Degradation under Ultraviolet Light in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21985-21990.	4.0	71
143	Towards mass fabrication of hot embossed plant surface texture replicas as photovoltaic cover layers. , 2018, , .		6
144	Impact of Fabrication Parameters on the Self-cleaning Performance of Hot-embossed Fluoropolymer Films for Photovoltaic Modules. , 2018, , .		0

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145	A Novel Route to Plastics Recycling via Unique, Background-free, Micro-scale Photonic Markers. , 2018, , .		0
146	Realization of Colors and Patterns for Inkjet-Printed Perovskite Solar Cells. , 2018, , .		1
147	Room-Temperature High-Efficiency Solid-State Tripletâ€“Triplet Annihilation Up-Conversion in Amorphous Poly(olefin sulfone)s. ACS Applied Materials & Interfaces, 2017, 9, 8280-8286.	4.0	29
148	Scalable perovskite/CIGS thin-film solar module with power conversion efficiency of 17.8%. Journal of Materials Chemistry A, 2017, 5, 9897-9906.	5.2	47
149	Upâ€Conversion Fluorescent Labels for Plastic Recycling: A Review. Advanced Sustainable Systems, 2017, 1, 1600033.	2.7	70
150	Photocurrent enhancement of ultrathin front-textured crystalline silicon solar cells by rear-located periodic silver nanoarrays. Solar Energy, 2017, 150, 156-160.	2.9	19
151	Waterâ€“Energy Nexus Perspectives in the Context of Photovoltaicâ€Powered Decentralized Water Treatment Systems: A Tanzanian Case Study. Energy Technology, 2017, 5, 1112-1123.	1.8	9
152	Enhancement of Power Output From a Large-Area Luminescent Solar Concentrator With 4.8Ã— Concentration via Solar Cell Current Matching. IEEE Journal of Photovoltaics, 2017, 7, 802-809.	1.5	15
153	Direct Evidence of Significant Cation Intermixing in Upconverting Core@Shell Nanocrystals: Toward a New Crystallochemical Model. Chemistry of Materials, 2017, 29, 9238-9246.	3.2	66
154	Finely-tuned NIR-to-visible up-conversion in La₂O₃:Yb³⁺,Er³⁺microcrystals with high quantum yield. Journal of Materials Chemistry C, 2017, 5, 11010-11017.	2.7	40
155	Potential of Silicon Phononic Crystals for Photovoltaic Applications. IEEE Journal of Photovoltaics, 2017, 7, 1503-1510.	1.5	2
156	Texture of the Viola Flower for Light Harvesting in Photovoltaics. ACS Photonics, 2017, 4, 2687-2692.	3.2	43
157	Monodisperse Î²-NaYF₄:Yb³⁺,Tm³⁺ hexagonal microplates with efficient NIR-to-NIR up-conversion emission developed via ion exchange. Journal of Materials Chemistry C, 2017, 5, 9770-9777.	2.7	23
158	Excitonically Coupled States in Crystalline Coordination Networks. Chemistry - A European Journal, 2017, 23, 14316-14322.	1.7	30
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