Bryce Richards

List of Publications by Year
in descending order

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	Application of NaYF4:Er3+ up-converting phosphors for enhanced near-infrared silicon solar cell response. Applied Physics Letters, 2005, 86, 013505.	1.5	628
2	Silicon nanostructures for third generation photovoltaic solar cells. Thin Solid Films, 2006, 511-512, 654-662.	0.8	542
3	Luminescent layers for enhanced silicon solar cell performance: Down-conversion. Solar Energy Materials and Solar Cells, 2006, 90, 1189-1207.	3.0	534
4	Luminescent layers for enhanced silicon solar cell performance: Up-conversion. Solar Energy Materials and Solar Cells, 2007, 91, 829-842.	3.0	496
5	Enhancing the performance of solar cells via luminescent down-shifting of the incident spectrum: A review. Solar Energy Materials and Solar Cells, 2009, 93, 1182-1194.	3.0	480
6	Enhancing the performance of silicon solar cells via the application of passive luminescence conversion layers. Solar Energy Materials and Solar Cells, 2006, 90, 2329-2337.	3.0	470
7	Record Openâ€Circuit Voltage Wideâ€Bandgap Perovskite Solar Cells Utilizing 2D/3D Perovskite Heterostructure. Advanced Energy Materials, 2019, 9, 1803699.	10.2	325
8	Efficiency enhancement of solar cells by luminescent up-conversion of sunlight. Solar Energy Materials and Solar Cells, 2006, 90, 3327-3338.	3.0	271
9	Advanced Material Concepts for Luminescent Solar Concentrators. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 1312-1322.	1.9	254
10	The Importance of Dehydration in Determining Ion Transport in Narrow Pores. Small, 2012, 8, 1701-1709.	5.2	220
11	Single-material TiO2 double-layer antireflection coatings. Solar Energy Materials and Solar Cells, 2003, 79, 369-390.	3.0	207
12	Europium complexes with high total photoluminescence quantum yields in solution and in PMMA. Chemical Communications, 2009, , 6649.	2.2	200
13	Photon Upconversion for Photovoltaics and Photocatalysis: AÂCriticalÂReview. Chemical Reviews, 2021, 121, 9165-9195.	23.0	190
14	Highly Efficient IR to NIR Upconversion in Gd₂O₂S: Er³⁺ for Photovoltaic Applications. Chemistry of Materials, 2013, 25, 1912-1921.	3.2	183
15	Comparison of TiO2 and other dielectric coatings for buried-contact solar cells: a review. Progress in Photovoltaics: Research and Applications, 2004, 12, 253-281.	4.4	176
16	Inkjet-Printed Triple Cation Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 1834-1839.	2.5	156
17	Measurement method for photoluminescent quantum yields of fluorescent organic dyes in polymethyl methacrylate for luminescent solar concentrators. Applied Optics, 2009, 48, 212.	2.1	154
18	Coated and Printed Perovskites for Photovoltaic Applications. Advanced Materials, 2019, 31, e1806702.	11.1	146

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19	Inkjetâ€Printed Micrometerâ€Thick Perovskite Solar Cells with Large Columnar Grains. Advanced Energy Materials, 2020, 10, 1903184.	10.2	142
20	Increase in external quantum efficiency of encapsulated silicon solar cells from a luminescent downâ€shifting layer. Progress in Photovoltaics: Research and Applications, 2009, 17, 191-197.	4.4	130
21	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
22	Enhancing the Near-Infrared Spectral Response of Silicon Optoelectronic Devices via Up-Conversion. IEEE Transactions on Electron Devices, 2007, 54, 2679-2684.	1.6	126
23	Photon Upconversion at Crystalline Organicâ€"Organic Heterojunctions. Advanced Materials, 2016, 28, 8477-8482.	11.1	125
24	Spectral conversion of light for enhanced microalgae growth rates and photosynthetic pigment production. Bioresource Technology, 2012, 125, 75-81.	4.8	123
25	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
26	Electronâ€Beamâ€Evaporated Nickel Oxide Hole Transport Layers for Perovskiteâ€Based Photovoltaics. Advanced Energy Materials, 2019, 9, 1802995.	10.2	122
27	Improvement in multiâ€crystalline silicon solar cell efficiency via addition of luminescent material to EVA encapsulation layer. Progress in Photovoltaics: Research and Applications, 2011, 19, 345-351.	4.4	120
28	Renewable energy powered membrane technology: Salt and inorganic contaminant removal by nanofiltration/reverse osmosis. Journal of Membrane Science, 2011, 369, 188-195.	4.1	113
29	Characterization and reduction of reabsorption losses in luminescent solar concentrators. Applied Optics, 2010, 49, 1651.	2.1	112
30	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
31	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
32	Continuous wave amplified spontaneous emission in phase-stable lead halide perovskites. Nature Communications, 2019, 10, 988.	5.8	107
33	Renewable Energy Powered Membrane Technology. 1. Development and Characterization of a Photovoltaic Hybrid Membrane System. Environmental Science & Technology, 2007, 41, 998-1003.	4.6	106
34	Structureâ€"Property Relationships in Lanthanideâ€Doped Upconverting Nanocrystals: Recent Advances in Understanding Coreâ€"Shell Structures. Advanced Materials, 2019, 31, e1900623.	11.1	102
35	Experimental Energy Barriers to Anions Transporting through Nanofiltration Membranes. Environmental Science & Technology, 2013, 47, 1968-1976.	4.6	100
36	Overcoming the poor short wavelength spectral response of CdS/CdTe photovoltaic modules via luminescence down-shifting: ray-tracing simulations. Progress in Photovoltaics: Research and Applications, 2007, 15, 27-34.	4.4	92

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37	Temperature Variation-Induced Performance Decline of Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 16390-16399.	4.0	89
38	Flexible Inkjet-Printed Triple Cation Perovskite X-ray Detectors. ACS Applied Materials & Interfaces, 2020, 12, 15774-15784.	4.0	86
39	Optimizing infrared to near infrared upconversion quantum yield of Î²-NaYF4:Er3+ in fluoropolymer matrix for photovoltaic devices. Journal of Applied Physics, 2013, 114, .	1.1	85
40	Measured surface loss from luminescent solar concentrator waveguides. Applied Optics, 2008, 47, 6763.	2.1	84
41	Light Management: A Key Concept in High-Efficiency Perovskite/Silicon Tandem Photovoltaics. Journal of Physical Chemistry Letters, 2019, 10, 3159-3170.	2.1	81
42	Renewable Energy Powered Membrane Technology. 2. The Effect of Energy Fluctuations on Performance of a Photovoltaic Hybrid Membrane System. Environmental Science & Technology, 2008, 42, 4563-4569.	4.6	80
43	Luminescent downâ€shifting experiment and modelling with multiple photovoltaic technologies. Progress in Photovoltaics: Research and Applications, 2015, 23, 479-497.	4.4	79
44	Ultra-high photoluminescent quantum yield of Î²-NaYF_4: 10% Er^3+ via broadband excitation of upconversion for photovoltaic devices. Optics Express, 2012, 20, A879.	1.7	76
45	Theoretical comparison of cylindrical and square-planar luminescent solar concentrators. Applied Physics B: Lasers and Optics, 2007, 88, 285-290.	1.1	74
46	Perovskite Solar Cells with Allâ€Inkjetâ€Printed Absorber and Charge Transport Layers. Advanced Materials Technologies, 2021, 6, 2000271.	3.0	72
47	Spectral Dependence of Degradation under Ultraviolet Light in Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 21985-21990.	4.0	71
48	Upâ€Conversion Fluorescent Labels for Plastic Recycling: A Review. Advanced Sustainable Systems, 2017, 1, 1600033.	2.7	70
49	Luminescent solar concentrators: From experimental validation of 3D ray-tracing simulations to coloured stained-glass windows for BIPV. Solar Energy Materials and Solar Cells, 2014, 122, 99-106.	3.0	68
50	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
51	The role of polymers in the luminescence conversion of sunlight for enhanced solar cell performance. Synthetic Metals, 2005, 154, 61-64.	2.1	67
52	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
53	Absolute upconversion quantum yields of blue-emitting LiYF₄:Yb³⁺,Tm³⁺ upconverting nanoparticles. Physical Chemistry Chemical Physics, 2018, 20, 22556-22562.	1.3	66
54	Consensus statement: Standardized reporting of power-producing luminescent solar concentrator performance. Joule, 2022, 6, 8-15.	11.7	66

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55	Enhancing the surface passivation of TiO2 coated silicon wafers. Applied Physics Letters, 2002, 80, 1123-1125.	1.5	65
56	Renewable energy powered membrane technology: A leapfrog approach to rural water treatment in developing countries?. Renewable and Sustainable Energy Reviews, 2014, 40, 542-556.	8.2	64
57	Broadband photoluminescent quantum yield optimisation of Er3+-doped Î²-NaYF4 for upconversion in silicon solar cells. Solar Energy Materials and Solar Cells, 2014, 128, 18-26.	3.0	64
58	Promising fluorescent dye for solar energy conversion based on a perylene perinone. Applied Optics, 2011, 50, 163.	2.1	63
59	Exposure-dependent refractive index of Nanoscribe IP-Dip photoresist layers. Optics Letters, 2019, 44, 29.	1.7	63
60	Increase in short-wavelength response of encapsulated CIGS devices by doping the encapsulation layer with luminescent material. Solar Energy Materials and Solar Cells, 2012, 101, 62-67.	3.0	62
61	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
62	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
63	Quantifying barriers to monovalent anion transport in narrow non-polar pores. Physical Chemistry Chemical Physics, 2012, 14, 11633.	1.3	60
64	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
65	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
66	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
67	Upconversion properties of SrF₂:Yb³⁺,Er³⁺ single crystals. Journal of Materials Chemistry C, 2020, 8, 4093-4101.	2.7	58
68	Scalable two-terminal all-perovskite tandem solar modules with a 19.1% efficiency. Nature Energy, 2022, 7, 620-630.	19.8	58
69	Renewable energy powered membrane technology: Case study of St. Dorcas borehole in Tanzania demonstrating fluoride removal via nanofiltration/reverse osmosis. Separation and Purification Technology, 2016, 170, 445-452.	3.9	57
70	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
71	Renewable energy powered membrane technology: The effect of wind speed fluctuations on the performance of a wind-powered membrane system for brackish water desalination. Journal of Membrane Science, 2011, 370, 34-44.	4.1	56
72	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

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73	Photovoltaic-powered desalination system for remote Australian communities. Renewable Energy, 2003, 28, 2013-2022.	4.3	55
74	A comparison of PV/electrolyser and photoelectrolytic technologies for use in solar to hydrogen energy storage systems. International Journal of Hydrogen Energy, 2007, 32, 2703-2711.	3.8	55
75	Evaluation and optimization of the optical performance of low-concentrating dielectric compound parabolic concentrator using ray-tracing methods. Applied Optics, 2011, 50, 3303.	2.1	55
76	Methodology of energy yield modelling of perovskite-based multi-junction photovoltaics. Optics Express, 2019, 27, A507.	1.7	55
77	Increased short-circuit current density of production line CdTe mini-module through luminescent down-shifting. Solar Energy Materials and Solar Cells, 2012, 103, 11-16.	3.0	54
78	Bioinspired Superhydrophobic Highly Transmissive Films for Optical Applications. Small, 2016, 12, 6144-6152.	5.2	54
79	Anisotropic energy transfer in crystalline chromophore assemblies. Nature Communications, 2018, 9, 4332.	5.8	54
80	Luminescent Ethylene Vinyl Acetate Encapsulation Layers for Enhancing the Short Wavelength Spectral Response and Efficiency of Silicon Photovoltaic Modules. IEEE Journal of Photovoltaics, 2011, 1, 29-36.	1.5	53
81	Electrodialytic removal of NaCl from water: Impacts of using pulsed electric potential on ion transport and water dissociation phenomena. Journal of Membrane Science, 2013, 435, 99-109.	4.1	52
82	Enhanced energy conversion of up-conversion solar cells by the integration of compound parabolic concentrating optics. Solar Energy Materials and Solar Cells, 2015, 140, 217-223.	3.0	52
83	Renewable energy powered membrane technology: Fluoride removal in a rural community in northern Tanzania. Separation and Purification Technology, 2015, 149, 349-361.	3.9	51
84	Upconversion solar cell measurements under real sunlight. Optical Materials, 2018, 84, 389-395.	1.7	51
85	Arrays of Chiral Nanotubes and a Layered Coordination Polymer Containing Galliumâ€"Sulfide Supertetrahedral Clusters. Chemistry - A European Journal, 2010, 16, 4462-4465.	1.7	50
86	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
87	Renewable energy-powered membrane technology: Supercapacitors for buffering resource fluctuations in a wind-powered membrane system for brackish water desalination. Renewable Energy, 2013, 50, 126-135.	4.3	48
88	Upconverter Silicon Solar Cell Devices for Efficient Utilization of Sub-Band-Gap Photons Under Concentrated Solar Radiation. IEEE Journal of Photovoltaics, 2014, 4, 183-189.	1.5	48
89	Bifacial n-type silicon solar cells for upconversion applications. Solar Energy Materials and Solar Cells, 2014, 128, 57-68.	3.0	48
90	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

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91	Spontaneous enhancement of the stable power conversion efficiency in perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 670-682.	5.2	47
92	Inorganic fluorescent marker materials for identification of post-consumer plastic packaging. Resources, Conservation and Recycling, 2020, 161, 104976.	5.3	47
93	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
94	Impact of speciation on fluoride, arsenic and magnesium retention by nanofiltration/reverse osmosis in remote Australian communities. Desalination, 2009, 248, 177-183.	4.0	45
95	Renewable energy powered membrane technology: Impact of solar irradiance fluctuations on performance of a brackish water reverse osmosis system. Separation and Purification Technology, 2015, 156, 379-390.	3.9	45
96	Energy yield of bifacial textured perovskite/silicon tandem photovoltaic modules. Solar Energy Materials and Solar Cells, 2020, 208, 110367.	3.0	45
97	Renewable energy powered membrane technology: Brackish water desalination system operated using real wind fluctuations and energy buffering. Journal of Membrane Science, 2014, 468, 224-232.	4.1	44
98	A de novo strategy for predictive crystal engineering to tune excitonic coupling. Nature Communications, 2019, 10, 2048.	5.8	44
99	Texture of the Viola Flower for Light Harvesting in Photovoltaics. ACS Photonics, 2017, 4, 2687-2692.	3.2	43
100	Investigation of Host Polymers for Luminescent Solar Concentrators. Energy Technology, 2017, 5, 1037-1044.	1.8	43
101	TiO2 DLAR coatings for planar silicon solar cells. Progress in Photovoltaics: Research and Applications, 2003, 11, 27-32.	4.4	42
102	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
103	Design, development and indoor performance analysis of a low concentrating dielectric photovoltaic module. Solar Energy, 2014, 103, 390-401.	2.9	41
104	Permanently dispelling a myth of photovoltaics via the adoption of a new net energy indicator. Renewable and Sustainable Energy Reviews, 2007, 11, 162-172.	8.2	40
105	Preparation and photophysical studies of [Ln(hfac)3DPEPO], Ln = Eu, Tb, Yb, Nd, Gd; interpretation of total photoluminescence quantum yields. Dalton Transactions, 2013, 42, 13537.	1.6	40
106	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
107	Determination of complex optical constants and photovoltaic device design of all-inorganic CsPbBr₃ perovskite thin films. Optics Express, 2020, 28, 15706.	1.7	40
108	Design considerations for a solar-powered desalination system for remote communities in Australia. Desalination, 2002, 144, 193-199.	4.0	39

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109	Enhanced Photoluminescence in Quantum Dotsâ€“Porous Polymer Hybrid Films Fabricated by Microcellular Foaming. Advanced Optical Materials, 2019, 7, 1900223.	3.6	39
110	Planar photonic solar concentrators for building-integrated photovoltaics. Solar Energy Materials and Solar Cells, 2012, 104, 53-57.	3.0	38
111	Physical performance limitations of luminescent down-conversion layers for photovoltaic applications. Solar Energy Materials and Solar Cells, 2014, 122, 8-14.	3.0	37
112	Potential cost reduction of buried-contact solar cells through the use of titanium dioxide thin films. Solar Energy, 2004, 76, 269-276.	2.9	35
113	Smartphoneâ€Based Luminescent Thermometry via Temperatureâ€Sensitive Delayed Fluorescence from Gd₂O₂S:Eu³⁺. Advanced Optical Materials, 2020, 8, 2000507.	3.6	35
114	Revealing the internal luminescence quantum efficiency of perovskite films via accurate quantification of photon recycling. Matter, 2021, 4, 1391-1412.	5.0	35
115	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
116	Testing of a hybrid membrane system for groundwater desalination in an Australian national park. Desalination, 2005, 183, 55-62.	4.0	34
117	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
118	Efficient All-Evaporated <i>pin</i>-Perovskite Solar Cells: A Promising Approach Toward Industrial Large-Scale Fabrication. IEEE Journal of Photovoltaics, 2019, 9, 1249-1257.	1.5	33
119	Scalable Processing of Low-Temperature TiO₂ Nanoparticles for High-Efficiency Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 47-58.	2.5	33
120	Laminated Perovskite Photovoltaics: Enabling Novel Layer Combinations and Device Architectures. Advanced Functional Materials, 2020, 30, 1907481.	7.8	33
121	A comparison of hydrogen storage technologies for solar-powered stand-alone power supplies: A photovoltaic system sizing approach. International Journal of Hydrogen Energy, 2007, 32, 2712-2718.	3.8	32
122	The Impact of Luminescent Down Shifting on the Performance of CdTe Photovoltaics: Impact of the Module Vintage. IEEE Journal of Photovoltaics, 2014, 4, 457-464.	1.5	32
123	Design and Color Flexibility for Inkjet-Printed Perovskite Photovoltaics. ACS Applied Energy Materials, 2019, 2, 764-769.	2.5	32
124	Application of solar-powered desalination in a remote town in South Australia. Desalination, 2009, 248, 72-82.	4.0	31
125	Preparation of photoluminescent PMMA doped with tris(pyrazol-1-yl)borate lanthanide complexes. Journal of Luminescence, 2012, 132, 2378-2384.	1.5	31
126	Rigorous wave-optical treatment of photon recycling in thermodynamics of photovoltaics: Perovskite thin-film solar cells. Physical Review B, 2018, 98, .	1.1	31

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127	Efficient Photocatalytic Removal of Methylene Blue Using a Metalloporphyrinâ€"Poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 31763-31776.	4.0	31
128	Energy yield of all thinâ€film perovskite/CIGS tandem solar modules. Progress in Photovoltaics: Research and Applications, 2019, 27, 290-298.	4.4	31
129	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
130	Coupling of sunlight into optical fibres and spectral dependence for solar energy applications. Solar Energy, 2013, 93, 235-243.	2.9	30
131	Excitonically Coupled States in Crystalline Coordination Networks. Chemistry - A European Journal, 2017, 23, 14316-14322.	1.7	30
132	Triple cation mixed-halide perovskites for tunable lasers. Optical Materials Express, 2017, 7, 4082.	1.6	30
133	Photoluminescence studies on europium-based scorpionate-complex. Inorganic Chemistry Communication, 2011, 14, 1762-1766.	1.8	29
134	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
135	Renewable energy powered membrane technology: Safe operating window of a brackish water desalination system. Journal of Membrane Science, 2014, 468, 400-409.	4.1	28
136	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
137	A fully planar solar pumped laser based on a luminescent solar collector. Communications Physics, 2020, 3, .	2.0	28
138	From concept to commercialisation: student learning in a sustainable engineering innovation project. European Journal of Engineering Education, 2007, 32, 143-165.	1.5	27
139	Spectroscopy and near infrared upconversion of Er 3+ -doped TZNT glasses. Journal of Luminescence, 2016, 169, 270-276.	1.5	27
140	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
141	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
142	Photonic Crystalâ€Driven Spectral Concentration for Upconversion Photovoltaics. Advanced Optical Materials, 2015, 3, 568-574.	3.6	26
143	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
144	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

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145	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
146	Inâ€plane optical anisotropy of GaAs/AlAs multiple quantum wells probed by microscopic reflectance difference spectroscopy. Applied Physics Letters, 1996, 69, 782-784.	1.5	24
147	Growth of polycrystalline silicon on glass by selective laserâ€induced nucleation. Applied Physics Letters, 1996, 69, 3719-3721.	1.5	24
148	Potential of wind-powered renewable energy membrane systems for Ghana. Desalination, 2009, 248, 169-176.	4.0	24
149	The effect of intermittent operation on a wind-powered membrane system for brackish water desalination. Water Science and Technology, 2012, 65, 867-874.	1.2	24
150	Integration of Color and Graphical Design for Photovoltaic Modules Using Luminescent Materials. IEEE Journal of Photovoltaics, 2015, 5, 584-590.	1.5	24
151	The Janus-faced chromophore: a donorâ€“acceptor dyad with dual performance in photon up-conversion. Chemical Communications, 2018, 54, 1607-1610.	2.2	24
152	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
153	Harvesting Sub-bandgap Photons via Upconversion for Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 54874-54883.	4.0	24
154	System design and performance testing of a hybrid membrane â€" photovltaic desalination system. Desalination, 2005, 179, 51-59.	4.0	23
155	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
156	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
157	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
158	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
159	Experimental validation of a modeling framework for upconversion enhancement in 1D-photonic crystals. Nature Communications, 2021, 12, 104.	5.8	22
160	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
161	Highly Porous Nanocluster TiO[sub 2] Films Deposited Using APCVD in an Excess of Water Vapor. Journal of the Electrochemical Society, 2005, 152, F71.	1.3	21
162	The implementation of temperature control to an inductiveâ€coil photoconductance instrument for the range of 0â€“230Â°C. Progress in Photovoltaics: Research and Applications, 2008, 16, 609-613.	4.4	21

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