

Andrew D Scully

List of Publications by Year in descending order

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73
papers

2,874
citations

186265

28
h-index

175258

52
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75
all docs

75
docs citations

75
times ranked

4332
citing authors

#	ARTICLE	IF	CITATIONS
1	Copper(I) Iodide as Hole-Transporter in Planar Perovskite Solar Cells: Probing the Origin of J-V Hysteresis. <i>Advanced Functional Materials</i> , 2015, 25, 5650-5661.	14.9	260
2	Encapsulation for improving the lifetime of flexible perovskite solar cells. <i>Nano Energy</i> , 2015, 18, 118-125.	16.0	232
3	Insights into Planar CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Using Impedance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4444-4453.	3.1	160
4	Effect of Matrix-Particle Interfacial Adhesion on the Mechanical Properties of Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 To	5.0	156
5	Self-Assembled 2D Perovskite Layers for Efficient Printable Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803258.	19.5	149
6	Interfacial benzenethiol modification facilitates charge transfer and improves stability of cm-sized metal halide perovskite solar cells with up to 20% efficiency. <i>Energy and Environmental Science</i> , 2018, 11, 1880-1889.	30.8	148
7	Diammonium and Monoammonium Mixed-Organic-Cation Perovskites for High Performance Solar Cells with Improved Stability. <i>Advanced Energy Materials</i> , 2017, 7, 1700444.	19.5	121
8	The Tandem Photoredox Catalysis Mechanism of [Ir(ppy) ₂ (dtb-bpy)] ⁺ Enabling Access to Energy Demanding Organic Substrates. <i>Journal of the American Chemical Society</i> , 2019, 141, 17646-17658.	13.7	102
9	Inverted perovskite solar cells with high fill-factors featuring chemical bath deposited mesoporous NiO hole transporting layers. <i>Nano Energy</i> , 2018, 49, 163-171.	16.0	91
10	Low-Cost N,N'-Bicarbazole-Based Dopant-Free Hole-Transporting Materials for Large-Area Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1800538.	19.5	89
11	Effect of solvent on excited-state intramolecular proton transfer in benzotriazole photostabilizers. <i>The Journal of Physical Chemistry</i> , 1986, 90, 5089-5093.	2.9	75
12	Crystallisation control of drop-cast quasi-2D/3D perovskite layers for efficient solar cells. <i>Communications Materials</i> , 2020, 1, .	6.9	66
13	Directing nucleation and growth kinetics in solution-processed hybrid perovskite thin-films. <i>Science China Materials</i> , 2017, 60, 617-628.	6.3	64
14	Development of a laser-based fluorescence microscope with subnanosecond time resolution. <i>Journal of Fluorescence</i> , 1996, 6, 119-125.	2.5	53
15	Photocatalytic and Chemoselective Transfer Hydrogenation of Diarylimines in Batch and Continuous Flow. <i>Organic Letters</i> , 2018, 20, 905-908.	4.6	47
16	The Effect of pH on the Photophysics and Photochemistry of Di-sulphonated Aluminum Phthalocyanine. <i>Photochemistry and Photobiology</i> , 2000, 71, 397.	2.5	46
17	Influence of moisture out-gassing from encapsulant materials on the lifetime of organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 485-491.	6.2	44
18	A facile deposition method for CuSCN: Exploring the influence of CuSCN on J-V hysteresis in planar perovskite solar cells. <i>Nano Energy</i> , 2017, 32, 310-319.	16.0	44

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19	Solvent Engineering of a Dopant-Free Spiro-OMeTAD Hole-Transport Layer for Centimeter-Scale Perovskite Solar Cells with High Efficiency and Thermal Stability. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 8260-8270.	8.0	42
20	Application of fluorescence lifetime imaging microscopy to the investigation of intracellular PDT mechanisms. <i>Bioimaging</i> , 1997, 5, 9-18.	1.3	42
21	Study of the Fractional Power Dependence on Solvent Viscosity of the Rate Constant for Bimolecular Diffusion-Influenced Quenching Reactions between Oxygen and the Singlet and Triplet States of Anthracene Derivatives. <i>The Journal of Physical Chemistry</i> , 1994, 98, 4609-4616.	2.9	41
22	A Lab-to-Fab Study toward Roll-to-Roll Fabrication of Reproducible Perovskite Solar Cells under Ambient Room Conditions. <i>Cell Reports Physical Science</i> , 2021, 2, 100293.	5.6	39
23	Photodegradation at the wood-clearcoat interface. <i>Wood Science and Technology</i> , 1995, 29, 183.	3.2	37
24	Recent progress towards roll-to-roll manufacturing of perovskite solar cells using slot-die processing. <i>Flexible and Printed Electronics</i> , 2020, 5, 014006.	2.7	37
25	Millimeter-Sized Clusters of Triple Cation Perovskite Enables Highly Efficient and Reproducible Roll-Fabricated Inverted Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	36
26	Effect of Grain Cluster Size on Back-Contact Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2018, 28, 1805098.	14.9	32
27	Detection of Halomethanes Using Cesium Lead Halide Perovskite Nanocrystals. <i>ACS Nano</i> , 2021, 15, 1454-1464.	14.6	32
28	Pressure effects on the dynamic quenching by oxygen of singlet and triplet states of anthracene derivatives in solution. <i>Journal of the American Chemical Society</i> , 1990, 112, 6847-6853.	13.7	31
29	A time-resolved fluorescence study of electronic excitation energy transport in concentrated dye solutions. <i>Chemical Physics</i> , 1991, 157, 253-269.	1.9	31
30	New barrier encapsulation and lifetime assessment of printed organic photovoltaic modules. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 108-116.	6.2	30
31	Photodynamic inactivation of bacterial spores on the surface of a photoactive polymer. <i>Reactive and Functional Polymers</i> , 2009, 69, 821-827.	4.1	28
32	Enhancement of 3D/2D Perovskite Solar Cells Using an F4TCNQ Molecular Additive. <i>ACS Applied Energy Materials</i> , 2020, 3, 8205-8215.	5.1	28
33	Analysis of the transient effect for a bimolecular fluorescence-quenching reaction between ions in aqueous solution. 2. Temperature dependence of kinetic parameters. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10524-10529.	2.9	26
34	A visible-light photocatalytic thiolation of aryl, heteroaryl and vinyl iodides. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1543-1551.	2.8	26
35	Band-gap tuning of pendant polymers for organic light-emitting devices and photovoltaic applications. <i>Synthetic Metals</i> , 2011, 161, 856-863.	3.9	24
36	Evidence for long-range electron transfer in a diffusion-influenced bimolecular reaction from fluorescence decay measurements. <i>Chemical Physics Letters</i> , 1994, 228, 32-40.	2.6	23

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37	Analysis of the transient effect for a bimolecular fluorescence quenching reaction between ions in aqueous solution. <i>The Journal of Physical Chemistry</i> , 1992, 96, 7333-7337.	2.9	22
38	Balancing Charge Extraction for Efficient Back-Contact Perovskite Solar Cells by Using an Embedded Mesoscopic Architecture. <i>Advanced Energy Materials</i> , 2021, 11, 2100053.	19.5	19
39	Laser Line-Scanning Confocal Fluorescence Imaging of the Photodynamic Action of Aluminum and Zinc Phthalocyanines in V79 Chinese Hamster Fibroblasts. <i>Photochemistry and Photobiology</i> , 1998, 68, 199-204.	2.5	17
40	Drop-Casting Method to Screen Ruddlesden-Popper Perovskite Formulations for Use in Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56217-56225.	8.0	17
41	A stability study of roll-to-roll processed organic photovoltaic modules containing a polymeric electron-selective layer. <i>Solar Energy Materials and Solar Cells</i> , 2016, 152, 133-140.	6.2	16
42	Photoactive nanocoating for controlling microbial proliferation on polymeric surfaces. <i>Progress in Organic Coatings</i> , 2008, 62, 40-48.	3.9	15
43	Diffusion-Facilitated Direct Determination of Intrinsic Parameters for Rapid Photoinduced Bimolecular Electron-Transfer Reactions in Nonpolar Solvents. <i>Journal of Physical Chemistry A</i> , 2015, 119, 2770-2779.	2.5	15
44	Laser line-scanning confocal fluorescence imaging of the photodynamic action of aluminum and zinc phthalocyanines in V79-4 Chinese hamster fibroblasts. <i>Photochemistry and Photobiology</i> , 1998, 68, 199-204.	2.5	15
45	The effect of pressure on the dynamic quenching by oxygen of the excited singlet state of 9,10-dimethylantracene in solution. <i>Chemical Physics</i> , 1991, 157, 271-278.	1.9	14
46	Photophysics of 6-(2-hydroxy-4-methoxyphenyl)-s-triazine photostabilizers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1987, 40, 391-399.	3.9	13
47	Efficient monochromatic red, green, and blue up-converted luminescence from Yb ³⁺ -doped micro-phosphors co-doped with Er ³⁺ or Tm ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2014, 603, 136-143.	5.5	13
48	Multiple Roles of Cobalt Pyrazol-Pyridine Complexes in High-Performing Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4675-4682.	4.6	13
49	Photophysics of a sulfonated 2-hydroxyphenylbenzotriazole UV absorber in solution and in polymer substrates. <i>Journal of Polymer Science Part A</i> , 1987, 25, 1619-1631.	2.3	12
50	Transient products in the photoreduction of benzophenone derivatives in poly(ethylene-vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	3.9	12
51	Temperature dependence of fluorescence from polymer-bound 2-(2-hydroxyphenyl)-2H-benzotriazole photostabilizers. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1991, 55, 387-393.	3.9	11
52	Inactivation of Food-borne Spoilage and Pathogenic Microorganisms on the Surface of a Photoactive Polymer. <i>Photochemistry and Photobiology</i> , 2010, 86, 1109-1117.	2.5	10
53	Intraphase Microstructure Understanding the Impact on Organic Solar Cell Performance. <i>Advanced Functional Materials</i> , 2013, 23, 5655-5662.	14.9	10
54	High-performance oxygen barrier inorganic-organic coating for polymeric substrates. <i>Surface and Coatings Technology</i> , 2014, 239, 222-226.	4.8	10

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55	Donor-acceptor rod-coil block copolymers comprising poly[2,7-(9,9-dihexylfluorene)- <i>alt</i> -bithiophene] and fullerene as compatibilizers for organic photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2015, 53, 888-903.	2.3	10
56	Self-assembled nano-phase particles for enhanced oxygen barrier coatings on polymeric materials. <i>Progress in Organic Coatings</i> , 2013, 76, 51-59.	3.9	9
57	Unconventional, Gram-Scale Synthesis of a Molecular Dimer Organic Luminogen with Aggregation-Induced Emission. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40441-40450.	8.0	9
58	Photophysics of polymer-bound 2-(2-hydroxyphenyl)-2H-benzotriazole photostabilizers. <i>Journal of Polymer Science, Polymer Letters Edition</i> , 1988, 26, 505-510.	0.4	8
59	Direct determination of kinetic parameters for diffusion-influenced reactions in solution by analysis of fluorescence decay curves. <i>Journal of Fluorescence</i> , 1995, 5, 107-120.	2.5	8
60	Quenching of chlorophyll a fluorescence by oxygen in highly concentrated solutions and microdroplets. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 104, 141-149.	3.9	8
61	Aggregation of a Dibenzo[<i>b</i>]chrysene Based Organic Photovoltaic Material in Solution. <i>Journal of Physical Chemistry B</i> , 2014, 118, 6839-6849.	2.6	8
62	Effect of Diffusion on the Photoinduced Reaction between a Tetra-Anionic Porphyrin and Methylviologen Cation in Methanol. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5378-5384.	2.5	5
63	Photo-spectroscopic properties of benzothiadiazole-containing pendant polymers for photovoltaic applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 220, 102-112.	3.9	5
64	Photophysics of Hydroxyphenylbenzotriazole Polymer Photostabilizers. <i>ACS Symposium Series</i> , 1989, , 57-79.	0.5	4
65	An Alternating Donor-Acceptor Conjugated Polymer Based on Benzodithiophene and [3,4-c]pyrrole-4,6-dione: Synthesis, Characterization, and Application in Photovoltaic Devices. <i>Australian Journal of Chemistry</i> , 2015, 68, 1773.	0.9	4
66	The Effect of pH on the Photophysics and Photochemistry of Di-sulphonated Aluminum Phthalocyanine. <i>Photochemistry and Photobiology</i> , 2007, 71, 397-404.	2.5	3
67	Application of fluorescence lifetime imaging microscopy to the investigation of intracellular PDT mechanisms. , 1997, 5, 9.		2
68	P-136: New Materials for Organic Light-Emitting Diodes Displaying Thermally-Activated Delayed Fluorescence. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 1674-1677.	0.3	1
69	Electronic Energy Transport in Vinyl Aromatic Polymers. , 1991, , 295-305.		1
70	Laser Line-Scanning Confocal Fluorescence Imaging of the Photodynamic Action of Aluminum and Zinc Phthalocyanines in V79-4 Chinese Hamster Fibroblasts. <i>Photochemistry and Photobiology</i> , 1998, 68, 199.	2.5	1
71	Evidence for long-range electron transfer in a diffusion-influenced bimolecular reaction from fluorescence decay measurements. <i>Chemical Physics Letters</i> , 1994, 230, 216.	2.6	0
72	Recent Progress in high efficiency blue emitter materials for OLEDs: Development of blue phosphorescent and TADF Materials. , 2014, , .		0

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73	3.4: Room Temperature Dual Emission of Fluorescence and Phosphorescence in the Solid State. Digest of Technical Papers SID International Symposium, 2018, 49, 26-28.	0.3	0