

Noel W Duffy

List of Publications by Year in descending order

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91
papers

4,848
citations

87843

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95218

68
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docs citations

96
times ranked

6670
citing authors

#	ARTICLE	IF	CITATIONS
1	High-efficiency dye-sensitized solar cells with ferrocene-based electrolytes. <i>Nature Chemistry</i> , 2011, 3, 211-215.	6.6	553
2	A novel charge extraction method for the study of electron transport and interfacial transfer in dye sensitised nanocrystalline solar cells. <i>Electrochemistry Communications</i> , 2000, 2, 658-662.	2.3	296
3	Changing the Look of Voltammetry. <i>Analytical Chemistry</i> , 2005, 77, 186 A-195 A.	3.2	184
4	Highly Efficient p-Type Dye-Sensitized Solar Cells based on Tris(1,2-diaminoethane)Cobalt(II)/(III) Electrolytes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 602-605.	7.2	177
5	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.	1.5	160
6	Investigation of the Kinetics of the Back Reaction of Electrons with Tri-iodide in Dye-Sensitized Nanocrystalline Photovoltaic Cells. <i>Journal of Physical Chemistry B</i> , 2000, 104, 8916-8919.	1.2	157
7	Dye regeneration and charge recombination in dye-sensitized solar cells with ferrocene derivatives as redox mediators. <i>Energy and Environmental Science</i> , 2012, 5, 7090.	15.6	156
8	Near-Infrared Absorbing Cu ₁₂ Sb ₄ S ₁₃ and Cu ₃ Sb ₄ Nanocrystals: Synthesis, Characterization, and Photoelectrochemistry. <i>Journal of the American Chemical Society</i> , 2013, 135, 11562-11571.	6.6	155
9	A New Direction in Dye-Sensitized Solar Cells Redox Mediator Development: In Situ Fine-Tuning of the Cobalt(II)/(III) Redox Potential through Lewis Base Interactions. <i>Journal of the American Chemical Society</i> , 2012, 134, 16646-16653.	6.6	134
10	In situ infrared spectroscopic analysis of the adsorption of ruthenium(II) bipyridyl dicarboxylic acid photosensitisers to TiO ₂ in aqueous solutions. <i>Chemical Physics Letters</i> , 1997, 266, 451-455.	1.2	111
11	Aqueous Dye-Sensitized Solar Cell Electrolytes Based on the Ferricyanide/Ferrocyanide Redox Couple. <i>Advanced Materials</i> , 2012, 24, 1222-1225.	11.1	110
12	Inorganic Electron Transport Materials in Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2008300.	7.8	105
13	Cu ₂ ZnSnS ₄ Se ₄ Solar Cells from Polar Nanocrystal Inks. <i>Journal of the American Chemical Society</i> , 2014, 136, 5237-5240.	6.6	102
14	Enhancing the Optoelectronic Performance of Perovskite Solar Cells via a Textured CH ₃ NH ₃ PbI ₃ Morphology. <i>Advanced Functional Materials</i> , 2016, 26, 1278-1285.	7.8	90
15	Stable Dye-Sensitized Solar Cell Electrolytes Based on Cobalt(II)/(III) Complexes of a Hexadentate Pyridyl Ligand. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 5527-5531.	7.2	87
16	Fully printable perovskite solar cells with highly-conductive, low-temperature, perovskite-compatible carbon electrode. <i>Carbon</i> , 2018, 129, 830-836.	5.4	79
17	Visualizing Phase Segregation in Mixed-Halide Perovskite Single Crystals. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2893-2898.	7.2	77
18	Planar versus mesoscopic perovskite microstructures: The influence of CH ₃ NH ₃ PbI ₃ morphology on charge transport and recombination dynamics. <i>Nano Energy</i> , 2016, 22, 439-452.	8.2	76

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19	Dominating Energy Losses in NiO p-Type Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1401387.	10.2	75
20	The nickel-carbon asymmetric supercapacitor Performance, energy density and electrode mass ratios. <i>Electrochimica Acta</i> , 2008, 54, 535-539.	2.6	74
21	Resistance, Capacitance, and Electrode Kinetic Effects in Fourier-Transformed Large-Amplitude Sinusoidal Voltammetry: Emergence of Powerful and Intuitively Obvious Tools for Recognition of Patterns of Behavior. <i>Analytical Chemistry</i> , 2004, 76, 6214-6228.	3.2	73
22	How reliable are efficiency measurements of perovskite solar cells? The first inter-comparison, between two accredited and eight non-accredited laboratories. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22542-22558.	5.2	70
23	Dipole-field-assisted charge extraction in metal-perovskite-metal back-contact solar cells. <i>Nature Communications</i> , 2017, 8, 613.	5.8	66
24	Characterisation of electron transport and back reaction in dye-sensitised nanocrystalline solar cells by small amplitude laser pulse excitation. <i>Electrochemistry Communications</i> , 2000, 2, 262-266.	2.3	62
25	In Situ Formation of Reactive Sulfide Precursors in the One-Pot, Multigram Synthesis of Cu ₂ ZnSnS ₄ Nanocrystals. <i>Crystal Growth and Design</i> , 2013, 13, 1712-1720.	1.4	57
26	Synthesis, Structure, and Electronic Communication in Complexes Derived from RC ₂ Co ₂ (CO) ₆ C ₂ Co ₂ (CO) ₆ R. <i>Organometallics</i> , 1996, 15, 3935-3943.	1.1	54
27	Controlled Growth of Monocrystalline Organo-Lead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12486-12491.	7.2	54
28	Synthesis and stereochemistry of bis(platinum) complexes of ferrocenylamines. <i>Organometallics</i> , 1994, 13, 511-521.	1.1	50
29	Evaluation of the effects of oxygen evolution on the capacity and cycle life of nickel hydroxide electrode materials. <i>Journal of Power Sources</i> , 2007, 168, 513-521.	4.0	49
30	Electrodeposition and characterisation of CdTe films for solar cell applications. <i>Electrochimica Acta</i> , 2000, 45, 3355-3365.	2.6	48
31	Photophysical, dynamic and redox behavior of tris(2,6-diisopropylphenyl)phosphine. <i>New Journal of Chemistry</i> , 2008, 32, 214-231.	1.4	47
32	Cyanomethylbenzoic Acid: An Acceptor for Donor-Acceptor Chromophores Used in Dye-Sensitized Solar Cells. <i>ChemSusChem</i> , 2013, 6, 256-260.	3.6	47
33	Surface State Recombination and Passivation in Nanocrystalline TiO ₂ Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 25118-25126.	1.5	46
34	Macroelectrode voltammetry in toluene using a phosphonium-phosphate ionic liquid as the supporting electrolyte. <i>Electrochemistry Communications</i> , 2006, 8, 892-898.	2.3	44
35	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.	3.0	44
36	Cu ₂ ZnGeS ₄ Nanocrystals from Air-Stable Precursors for Sintered Thin Film Alloys. <i>Chemistry of Materials</i> , 2014, 26, 5482-5491.	3.2	42

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55	Mimicry of Sputtered ZnO Thin Films Using Chemical Bath Deposition for Solution-Processed Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22519-22526.	4.0	23
56	Microwave Reflectance Studies of Photoelectrochemical Kinetics at Semiconductor Electrodes. 1. Steady-State, Transient, and Periodic Responses. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5857-5863.	1.2	22
57	The Performance-Determining Role of Lewis Bases in Dye-Sensitized Solar Cells Employing Copper-Bisphenanthroline Redox Mediators. <i>Advanced Energy Materials</i> , 2020, 10, 2002067.	10.2	22
58	Relationships between basicity, redox behaviour of ferrocenylamines and their reactivity with Pt(II) compounds. <i>Journal of Organometallic Chemistry</i> , 1998, 564, 125-131.	0.8	20
59	Synthesis, structure and electrochemistry of ferrocenylethynylsilanes and their complexes with dicobalt octacarbonyl. <i>Journal of Organometallic Chemistry</i> , 1999, 573, 36-46.	0.8	20
60	Effect on Cell Efficiency following Thermal Degradation of Dye-Sensitized Mesoporous Electrodes Using N719 and D5 Sensitizers. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18902-18906.	1.5	20
61	Polypyridyl Iron Complex as a Hole-Transporting Material for Formamidinium Lead Bromide Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2017, 2, 1855-1859.	8.8	17
62	Solution-processed CdS thin films from a single-source precursor. <i>Journal of Materials Chemistry C</i> , 2014, 2, 3247-3253.	2.7	16
63	Perovskite solar cells with a hybrid electrode structure. <i>AIP Advances</i> , 2019, 9, 125037.	0.6	16
64	Neural Electrodes Based on 3D Organic Electroactive Microfibers. <i>Advanced Functional Materials</i> , 2018, 28, 1700927.	7.8	15
65	Microwave Reflectance Studies of Photoelectrochemical Kinetics at Semiconductor Electrodes. 2. Hydrogen Evolution at p-Si in Ammonium Fluoride Solution. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5864-5870.	1.2	14
66	Efficient All-Printable Solid-State Dye-Sensitized Solar Cell Based on a Low-Resistivity Carbon Composite Counter Electrode and Highly Doped Hole Transport Material. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11410-11418.	1.5	14
67	Tunable Crystallization and Nucleation of Planar CH ₃ NH ₃ Pb ₃ through Solvent-Modified Interdiffusion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14673-14683.	4.0	14
68	Can Laminated Carbon Challenge Gold? Toward Universal, Scalable, and Low-Cost Carbon Electrodes for Perovskite Solar Cells. <i>Advanced Materials Technologies</i> , 2022, 7, 2101148.	3.0	14
69	Synthesis, structure and redox chemistry of ferrocenylsilylmethylidinetricobaltnonacarbonyl complexes, FcSi(R)2CCo3(CO)9, 1,1'-Fc[Si(R)2CCo3(CO)9]2 (R = Me, Et, Ph) and their derivatives. <i>Journal of Organometallic Chemistry</i> , 1992, 437, 323-346.	0.8	13
70	Preparation and redox properties of phosphite derivatives of R2C2Co2(CO)6·n[P(OMe)3]n (R=CF3, Tj ETQq0 0 0, rgBT /Overlock 10 T	0.8	12
71	Comparison of the electrochemical behaviour of buckypaper and polymer-intercalated buckypaper electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011, 652, 52-59.	1.9	12
72	Attributes of Direct Current Aperiodic and Alternating Current Harmonic Components Derived From Large Amplitude Fourier Transformed Voltammetry Under Microfluidic Control in a Channel Electrode. <i>Analytical Chemistry</i> , 2012, 84, 6686-6692.	3.2	10

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73	Intraphase Microstructureâ€œUnderstanding the Impact on Organic Solar Cell Performance. <i>Advanced Functional Materials</i> , 2013, 23, 5655-5662.	7.8	10
74	Controlled Growth of Monocrystalline Organoâ€œLead Halide Perovskite and Its Application in Photonic Devices. <i>Angewandte Chemie</i> , 2017, 129, 12660-12665.	1.6	10
75	An extensible and tunable full-opaque cascade smart electrochromic device. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110740.	3.0	10
76	Phosphine Complexes of Platinum(II) Cycloplatinated Ferrocenylamines. <i>Inorganic Chemistry</i> , 1994, 33, 5343-5350.	1.9	9
77	Monitoring ECE transformations of metal carbonyls by in situ spectroelectrochemistry; SNIFTIRS of [Co ₃ (CO) ₉ C] ₂ . <i>Journal of Organometallic Chemistry</i> , 1999, 582, 183-187.	0.8	9
78	Reactions of HCCo ₃ (CO) ₉ with silanes; synthesis and electrochemistry of X[SiMe ₂ CCo ₃ (CO) ₉] ₂ (X=O, Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.2	8
79	Infrared spectroelectrochemistry of [Co ₃ (CPh)(CO) ₉] in methanol at a platinum electrode. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 2855-2860.	1.1	8
80	Charge Transport in Photoanodes Constructed with Mesoporous TiO ₂ Beads for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16635-16642.	1.5	8
81	Passivation by pyridine-induced PbI ₂ in methylammonium lead iodide perovskites. <i>RSC Advances</i> , 2020, 10, 23829-23833.	1.7	8
82	Charge Transport and Recombination in Dye-Sensitized Solar Cells on Plastic Substrates. <i>Journal of Physical Chemistry C</i> , 2014, 118, 15154-15161.	1.5	7
83	Light intensity modulated photoluminescence for rapid series resistance mapping of perovskite solar cells. <i>Nano Energy</i> , 2020, 73, 104755.	8.2	6
84	Dual Photolytic Pathways in an Alloyed Plasmonic Near-Perfect Absorber: Implications for Photoelectrocatalysis. <i>ACS Applied Nano Materials</i> , 2021, 4, 2702-2712.	2.4	5
85	Increasing Cycle Life of Nickel Hydroxide Electrodes at High Currents. <i>ECS Transactions</i> , 2006, 2, 105-116.	0.3	4
86	Visualisierung der Phasensegregation in Gemischthalogenidâ€œPerovskiteinkristallen. <i>Angewandte Chemie</i> , 2019, 131, 2919-2924.	1.6	4
87	Tunable transition metal complexes as hole transport materials for stable perovskite solar cells. <i>Chemical Communications</i> , 2021, 57, 2093-2096.	2.2	4
88	Water-soluble Co ₃ C and Co ₂ C ₂ clusters; redox chemistry and electrochemical reactions in water. <i>Journal of the Chemical Society Dalton Transactions</i> , 1994, , 2821.	1.1	3
89	Frequency Response Analysis of the Potential Modulated Microwave Reflectivity Response of p-Type Silicon During Anodic Dissolution in Ammonium Fluoride Solutions. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003, 217, 333-350.	1.4	1
90	Electron Transport Materials: Inorganic Electron Transport Materials in Perovskite Solar Cells (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	7.8	1

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91	Solution processing of next-generation nanocrystal solar cells. , 2013, , .		0