Kenneth G Hanson

List of Publications by Year
in descending order

111 papers	6,765 citations	50276 46 h-index	62596 80 g-index
117 all docs	117 docs citations	117 times ranked	8928 citing authors

#	Article	IF	Citations
1	Luminescent zero-dimensional organic metal halide hybrids with near-unity quantum efficiency. Chemical Science, 2018, 9, 586-593.	7.4	467
2	Bright Lightâ€Emitting Diodes Based on Organometal Halide Perovskite Nanoplatelets. Advanced Materials, 2016, 28, 305-311.	21.0	463
3	Enhanced Optical and Electrical Properties of Polymerâ€Assisted Allâ€Inorganic Perovskites for Lightâ€Emitting Diodes. Advanced Materials, 2016, 28, 8983-8989.	21.0	326
4	Fully Printed Halide Perovskite Light-Emitting Diodes with Silver Nanowire Electrodes. ACS Nano, 2016, 10, 1795-1801.	14.6	261
5	Highly Efficient, Near-Infrared Electrophosphorescence from a Ptâ€“Metalloporphyrin Complex. Angewandte Chemie - International Edition, 2007, 46, 1109-1112.	13.8	246
6	Photostability of Phosphonate-Derivatized, Ru^{II} Polypyridyl Complexes on Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2012, 4, 1462-1469.	8.0	157
7	Structureâ€“Property Relationships in Phosphonate-Derivatized, Ru^{II} Polypyridyl Dyes on Metal Oxide Surfaces in an Aqueous Environment. Journal of Physical Chemistry C, 2012, 116, 14837-14847.	3.1	156
8	Suppressed phase separation of mixed-halide perovskites confined in endotaxial matrices. Nature Communications, 2019, 10, 695.	12.8	156
9	Efficient Dipyrrin-Centered Phosphorescence at Room Temperature from Bis-Cyclometalated Iridium(III) Dipyrrinato Complexes. Inorganic Chemistry, 2010, 49, 6077-6084.	4.0	142
10	Porphyrinâ€Tape/C₆₀ Organic Photodetectors with 6.5% External Quantum Efficiency in the Near Infrared. Advanced Materials, 2010, 22, 2780-2783.	21.0	137
11	On the Quantum Yield of Photon Upconversion via Tripletâ€“Triplet Annihilation. ACS Energy Letters, 2020, 5, 2322-2326.	17.4	137
12	Reversible Repositioning of Zinc Atoms within Single Crystals of a Zinc Polycarboxylate with an Open-Framework Structure. Journal of the American Chemical Society, 2004, 126, 10502-10503.	13.7	121
13	Selfâ€Assembled Bilayer Films of Ruthenium(II)/Polypyridyl Complexes through Layerâ€byâ€Layer Deposition on Nanostructured Metal Oxides. Angewandte Chemie - International Edition, 2012, 51, 12782-12785.	13.8	118
14	Water Oxidation by an Electropolymerized Catalyst on Derivatized Mesoporous Metal Oxide Electrodes. Journal of the American Chemical Society, 2014, 136, 6578-6581.	13.7	108
15	Composite Perovskites of Cesium Lead Bromide for Optimized Photoluminescence. Journal of Physical Chemistry Letters, 2017, 8, 3266-3271.	4.6	108
16	Systematic variation of the optical bandgap in titanium based isoreticular metalâ€“organic frameworks for photocatalytic reduction of CO₂ under blue light. Journal of Materials Chemistry A, 2017, 5, 11854-11863.	10.3	102
17	Stabilization of [Ru(bpy)₂(4,4â€²-(PO₃H₂)bpy)]²⁺ on Mesoporous TiO₂ with Atomic Layer Deposition of Al₂O₃. Chemistry of Materials, 2013, 25, 3-5.	6.7	101
18	A Paradigm for Blue- or Red-Shifted Absorption of Small Molecules Depending on the Site of Ï€-Extension. Journal of the American Chemical Society, 2010, 132, 16247-16255.	13.7	96

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19	Traceless Directing Groups in Radical Cascades: From Oligoalkynes to Fused Helicenes without Tethered Initiators. Journal of the American Chemical Society, 2015, 137, 1165-1180.	13.7	94
20	Photoinduced Stepwise Oxidative Activation of a Chromophoreâ€“Catalyst Assembly on TiO₂. Journal of Physical Chemistry Letters, 2011, 2, 1808-1813.	4.6	93
21	Alkenes as Alkyne Equivalents in Radical Cascades Terminated by Fragmentations: Overcoming Stereoelectronic Restrictions on Ring Expansions for the Preparation of Expanded Polyaromatics. Journal of the American Chemical Society, 2015, 137, 6335-6349.	13.7	88
22	Photophysics of Pt-porphyrin electrophosphorescent devices emitting in the near infrared. Applied Physics Letters, 2007, 90, 213503.	3.3	87
23	Fused Pyreneâ€“Diporphyrins: Shifting Nearâ€Infrared Absorption to 1.5â€…Î¼m and Beyond. Angewandte Chemie - International Edition, 2010, 49, 5523-5526.	13.8	87
24	Integrated Photon Upconversion Solar Cell via Molecular Self-Assembled Bilayers. ACS Energy Letters, 2016, 1, 3-8.	17.4	86
25	Characterization of berkelium(III) dipicolinate and borate compounds in solution and the solid state. Science, 2016, 353, .	12.6	86
26	Stabilizing Small Molecules on Metal Oxide Surfaces Using Atomic Layer Deposition. Nano Letters, 2013, 13, 4802-4809.	9.1	85
27	Stabilization of a Ruthenium(II) Polypyridyl Dye on Nanocrystalline TiO₂ by an Electropolymerized Overlayer. Journal of the American Chemical Society, 2013, 135, 15450-15458.	13.7	84
28	Harnessing Molecular Photon Upconversion in a Solar Cell at Sub-solar Irradiance: Role of the Redox Mediator. Journal of the American Chemical Society, 2017, 139, 10988-10991.	13.7	83
29	Solution-Processed, Antimony-Doped Tin Oxide Colloid Films Enable High-Performance TiO₂ Photoanodes for Water Splitting. Nano Letters, 2013, 13, 1481-1488.	9.1	79
30	Ylidenemalononitrile Enamines as Fluorescent â€œTurn-Onâ€•Indicators for Primary Amines. Journal of the American Chemical Society, 2014, 136, 15493-15496.	13.7	79
31	Solid State Multicolor Emission in Substitutional Solid Solutions of Metalâ€“Organic Frameworks. Journal of the American Chemical Society, 2019, 141, 11298-11303.	13.7	79
32	Coupling Nâ€“H Deprotonation, Câ€“H Activation, and Oxidation: Metal-Free C(sp³)â€“H Aminations with Unprotected Anilines. Journal of the American Chemical Society, 2017, 139, 16210-16221.	13.7	78
33	Multimolecular assemblies on high surface area metal oxides and their role in interfacial energy and electron transfer. Chemical Society Reviews, 2018, 47, 104-148.	38.1	78
34	Molecular Photon Upconversion Solar Cells Using Multilayer Assemblies: Progress and Prospects. Journal of Physical Chemistry Letters, 2018, 9, 5810-5821.	4.6	76
35	Porphyrins Fused with Unactivated Polycyclic Aromatic Hydrocarbons. Journal of Organic Chemistry, 2012, 77, 143-159.	3.2	72
36	Electrochemical Instability of Phosphonate-Derivatized, Ruthenium(III) Polypyridyl Complexes on Metal Oxide Surfaces. ACS Applied Materials & Interfaces, 2015, 7, 9554-9562.	8.0	72

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37	Photon Upconversion and Photocurrent Generation via Self-Assembly at Organicâ€“Inorganic Interfaces. Journal of Physical Chemistry Letters, 2015, 6, 4510-4517.	4.6	70
38	Accumulation of Multiple Oxidative Equivalents at a Single Site by Cross-Surface Electron Transfer on TiO₂. Journal of the American Chemical Society, 2013, 135, 11587-11594.	13.7	68
39	A Sensitized Nb₂O₅ Photoanode for Hydrogen Production in a Dye-Sensitized Photoelectrosynthesis Cell. Chemistry of Materials, 2013, 25, 122-131.	6.7	66
40	Highly Efficient and Stable Perovskite Solar Cells Enabled by Lowâ€Cost Industrial Organic Pigment Coating. Angewandte Chemie - International Edition, 2021, 60, 2485-2492.	13.8	66
41	Light Emitting Diodes Based on Inorganic Composite Halide Perovskites. Advanced Functional Materials, 2019, 29, 1807345.	14.9	65
42	Harnessing molecular photon upconversion at sub-solar irradiance using dual sensitized self-assembled trilayers. Journal of Materials Chemistry A, 2017, 5, 11652-11660.	10.3	59
43	Interfacial Electron Transfer Dynamics for [Ru(bpy)₂((4,4â€²-PO₃H₂)₂bpy)]²⁺ Sensitized TiO₂ in a Dye-Sensitized Photoelectrosynthesis Cell: Factors Influencing Efficiency and Dynamics. Journal of Physical Chemistry C, 2011, 115, 7081-7091.	3.1	56
44	Synthesis and photophysical characterization of porphyrin and porphyrinâ€“Ru(ii) polypyridyl chromophoreâ€“catalyst assemblies on mesoporous metal oxides. Chemical Science, 2014, 5, 3115.	7.4	56
45	Facile Formation of 2Dâ€“3D Heterojunctions on Perovskite Thin Film Surfaces for Efficient Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 1159-1168.	8.0	55
46	Use of additives in porphyrin-tape/C60 near-infrared photodetectors. Organic Electronics, 2011, 12, 869-873.	2.6	49
47	Singlet Sensitization-Enhanced Upconversion Solar Cells via Self-Assembled Trilayers. ACS Energy Letters, 2019, 4, 1458-1463.	17.4	48
48	Energy and Electron Transfer Cascade in Self-Assembled Bilayer Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 28633-28640.	8.0	47
49	Photophysical Characterization of a Chromophore/Water Oxidation Catalyst Containing a Layer-by-Layer Assembly on Nanocrystalline TiO₂ Using Ultrafast Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 10301-10308.	2.5	45
50	Interfacial Energy Conversion in Ru^{II} Polypyridyl-Derivatized Oligoproline Assemblies on TiO₂. Journal of the American Chemical Society, 2013, 135, 5250-5253.	13.7	44
51	Spectroscopy and Dynamics of Phosphonate-Derivatized Ruthenium Complexes on TiO₂. Journal of Physical Chemistry C, 2013, 117, 812-824.	3.1	43
52	Interfacial Dynamics and Solar Fuel Formation in Dyeâ€Sensitized Photoelectrosynthesis Cells. ChemPhysChem, 2012, 13, 2882-2890.	2.1	41
53	Enantioselective Protonation of Silyl Enol Ether Using Excited State Proton Transfer Dyes. Organic Letters, 2016, 18, 5416-5419.	4.6	36
54	Increasing the Open-Circuit Voltage of Dye-Sensitized Solar Cells via Metal-Ion Coordination. Inorganic Chemistry, 2017, 56, 11168-11175.	4.0	36

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55	Modulating Electron Transfer Dynamics at Dyeâ€“Semiconductor Interfaces via Self-Assembled Bilayers. Journal of Physical Chemistry C, 2015, 119, 3502-3508.	3.1	35
56	Double Câ€“H amination by consecutive SET oxidations. Chemical Communications, 2016, 52, 7138-7141.	4.1	35
57	Stabilizing chromophore binding on TiO₂ for long-term stability of dye-sensitized solar cells using multicomponent atomic layer deposition. Physical Chemistry Chemical Physics, 2014, 16, 8615-8622.	2.8	34
58	Compression of curium pyrrolidine-dithiocarbamate enhances covalency. Nature, 2020, 583, 396-399.	27.8	34
59	Twisted Cycloalkynes and Remote Activation of â€œClickâ€•Reactivity. CheM, 2017, 3, 629-640.	11.7	33
60	Harnessing Sunlight via Molecular Photon Upconversion. ACS Applied Materials & Interfaces, 2021, 13, 32601-32605.	8.0	33
61	Inhibiting Interfacial Recombination Events in Dye-Sensitized Solar Cells using Self-Assembled Bilayers. ACS Applied Materials & Interfaces, 2015, 7, 27730-27734.	8.0	33
62	Substituted 1,3-Bis(imino)isoindole Diols: A New Class of Proton Transfer Dyes. Organic Letters, 2011, 13, 1598-1601.	4.6	32
63	Spontaneous Partitioning of Californium from Curium: Curious Cases from the Crystallization of Curium Coordination Complexes. Inorganic Chemistry, 2015, 54, 11399-11404.	4.0	32
64	Elucidating the Energy- and Electron-Transfer Dynamics of Photon Upconversion in Self-Assembled Bilayers. Journal of Physical Chemistry C, 2017, 121, 19690-19698.	3.1	31
65	Increasing Photocurrents in Dye Sensitized Solar Cells with Tantalum-Doped Titanium Oxide Photoanodes Obtained by Laser Ablation. ACS Applied Materials & Interfaces, 2012, 4, 4566-4570.	8.0	30
66	Protonation of silylenol ether via excited state proton transfer catalysis. Chemical Communications, 2016, 52, 1350-1353.	4.1	30
67	Twofold Ï€-Extension of Polyarenes via Double and Triple Radical Alkyne peri-Annulations: Radical Cascades Converging on the Same Aromatic Core. Journal of the American Chemical Society, 2020, 142, 8352-8366.	13.7	28
68	Band Edge Control of Quasiâ€2D Metal Halide Perovskites for Blue Lightâ€Emitting Diodes with Enhanced Performance. Advanced Functional Materials, 2021, 31, 2103299.	14.9	28
69	CdSe Quantum Dot Sensitized Molecular Photon Upconversion Solar Cells. ACS Applied Energy Materials, 2020, 3, 29-37.	5.1	27
70	Visualization of cation diffusion at the TiO2 interface in dye sensitized photoelectrosynthesis cells (DSPEC). Energy and Environmental Science, 2013, 6, 1240.	30.8	25
71	Electronic Structure and Properties of Berkelium Iodates. Journal of the American Chemical Society, 2017, 139, 13361-13375.	13.7	25
72	Examining the role of acceptor molecule structure in self-assembled bilayers: surface loading, stability, energy transfer, and upconverted emission. Physical Chemistry Chemical Physics, 2018, 20, 20513-20524.	2.8	24

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73	Examination of Structure and Bonding in 10-Coordinate Europium and Americium Terpyridyl Complexes. Inorganic Chemistry, 2018, 57, 12969-12975.	4.0	22
74	Photophysical and electrochemical properties of 1,3-bis(2-pyridylimino)isoindolate platinum(ii) derivatives. Dalton Transactions, 2012, 41, 8648.	3.3	19
75	Metal ion mediated electron transfer at dyeâ€“semiconductor interfaces. Physical Chemistry Chemical Physics, 2017, 19, 2679-2682.	2.8	19
76	Diphenylisobenzofuran Bound to Nanocrystalline Metal Oxides: Excimer Formation, Singlet Fission, Electron Injection, and Low Energy Sensitization. Journal of Physical Chemistry C, 2018, 122, 28478-28490.	3.1	18
77	Bis-Cyclometalated Iridium Complexes Containing 4,4â€²-Bis(phosphonomethyl)-2,2â€²-bipyridine Ligands: Photophysics, Electrochemistry, and High-Voltage Dye-Sensitized Solar Cells. Inorganic Chemistry, 2020, 59, 6351-6358.	4.0	18
78	Stabilizing molecular sensitizers in aqueous environs. Nano Energy, 2013, 2, 1067-1069.	16.0	16
79	Self-Assembled Bilayers on Nanocrystalline Metal Oxides: Exploring the Non-Innocent Nature of the Linking Ions. Langmuir, 2017, 33, 9609-9619.	3.5	15
80	Writing a Review Article: A Graduate Level Writing Class. Journal of Chemical Education, 2018, 95, 810-816.	2.3	15
81	Phenalenannulations: Threeâ€Point Double Annulation Reactions that Convert Benzenes into Pyrenes. Angewandte Chemie - International Edition, 2020, 59, 14352-14357.	13.8	15
82	Elucidating the Role of the Metal Linking Ion on the Excited State Dynamics of Self-Assembled Bilayers. Journal of Physical Chemistry C, 2018, 122, 9835-9842.	3.1	13
83	Metal ion linked multilayers on mesoporous substrates: Energy/electron transfer, photon upconversion, and more. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112291.	3.9	13
84	Conversion of Trivalent Uranium Anilido to Tetravalent Uranium Imido Species via Oxidative Deprotonation. Inorganic Chemistry, 2020, 59, 11910-11914.	4.0	13
85	Highly Efficient and Stable Perovskite Solar Cells Enabled by Lowâ€Cost Industrial Organic Pigment Coating. Angewandte Chemie, 2021, 133, 2515-2522.	2.0	11
86	Sensitized Photodecomposition of Organic Bisphosphonates By Singlet Oxygen. Journal of the American Chemical Society, 2012, 134, 16975-16978.	13.7	10
87	Enantioenrichment of racemic BINOL by way of excited state proton transfer. Chemical Communications, 2019, 55, 1263-1266.	4.1	10
88	Influence of meta- and para-phosphonated diphenylanthracene on photon upconversion in self-assembled bilayers. Journal of Photonics for Energy, 2017, 8, 1.	1.3	10
89	Chirality and Excited State Proton Transfer: From Sensing to Asymmetric Synthesis. ChemPhotoChem, 2019, 3, 580.	3.0	9
90	Influence of Dye-Coordinated Metal Ions on Electron Transfer Dynamics at Dyeâ€“Semiconductor Interfaces. ACS Applied Energy Materials, 2019, 2, 29-36.	5.1	9

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91	Harnessing near-infrared lightviaS₀to T₁sensitizer excitation in a molecular photon upconversion solar cell. Journal of Materials Chemistry C, 2022, 10, 4947-4954.	5.5	9
92	Electron transfer dynamics of peptideâ€derivatized Ru^{II}â€polypyridyl complexes on nanocrystalline metal oxide films. Biopolymers, 2013, 100, 25-37.	2.4	7
93	Examining the Influence of Bilayer Structure on Energy Transfer and Molecular Photon Upconversion in Metal Ion Linked Multilayers. Journal of Physical Chemistry C, 2020, 124, 23597-23610.	3.1	7
94	A Series of Green Light Absorbing Organic Photosensitizers Capable of Oxidative Quenching Photocatalysis. ChemPhotoChem, 2021, 5, 51-57.	3.0	7
95	Structural, electrochemical and photophysical properties of an exocyclic di-ruthenium complex and its application as a photosensitizer. Dalton Transactions, 2016, 45, 9601-9607.	3.3	6
96	Antiferroelectric Phase Transition in a Proton-Transfer Salt of Squaric Acid and 2,3-Dimethylpyrazine. Journal of the American Chemical Society, 2019, 141, 16279-16287.	13.7	6
97	Role of Metal Ion-Linked Multilayer Thickness and Substrate Porosity in Surface Loading, Diffusion, and Solar Energy Conversion. ACS Applied Materials & Interfaces, 2020, 12, 38003-38011.	8.0	6
98	Ylidenemalononitrile enamine-coated media as fluorescent â€œturn-onâ€•probes for volatile primary amines. Photochemical and Photobiological Sciences, 2017, 16, 455-458.	2.9	5
99	High-Pressure Studies of Cesium Uranyl Chloride. Inorganic Chemistry, 2019, 58, 228-233.	4.0	5
100	Catalyst free removal of trithiocarbonate RAFT CTAs from poly(vinylpyridine)s using tris(trimethylsilyl)silane and light. Polymer Chemistry, 2020, 11, 5962-5968.	3.9	5
101	Using Classical Test Theory and Rasch Modeling to Improve General Chemistry Exams on a Per Instructor Basis. Journal of Chemical Education, 2021, 98, 1529-1538.	2.3	5
102	Enabling Lower Energy Light Harvesting in Stilbene-Based Photomechanical Polymers via Triplet Sensitization. ACS Applied Polymer Materials, 2022, 4, 4081-4086.	4.4	5
103	Inhibited interlayer electron transfer in metal ion linked multilayers on mesoporous metal oxide films. Journal of Photochemistry and Photobiology, 2022, 9, 100088.	2.5	4
104	Synthesis of multi-substituted pyridines from ylidenemalononitriles and their emission properties. Organic and Biomolecular Chemistry, 2021, 19, 1991-1999.	2.8	3
105	Increasing Scope of Clickable Fluorophores: Electrophilic Substitution of Ylidenemalononitriles. Journal of Organic Chemistry, 2020, 85, 11822-11834.	3.2	2
106	Phenalenannulations: Threeâ€Point Double Annulation Reactions that Convert Benzenes into Pyrenes. Angewandte Chemie, 2020, 132, 14458-14463.	2.0	2
107	Efficient high surface area vertically aligned metal oxide nanostructures for dye-sensitized photoanodes by pulsed laser deposition. , 2011, , .		1
108	Wavelength selective separation of metal ions using electroactive ligands. Chemical Communications, 2018, 54, 7507-7510.	4.1	1

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109	Balancing the interplay between ligand ejection and therapeutic window light absorption in ruthenium polypyridyl complexes. Dalton Transactions, 0, , .	3.3	1
110	Excited state proton transfer dye with an emission quantum yield up to 60% upon Zn2+ coordination. Journal of Photochemistry and Photobiology, 2021, 6, 100029.	2.5	0
111	Electronically Coupled TTA-UC Solar Cells. , 2022, , 209-237.		0