

Andrew G Tennyson

List of Publications by Year in descending order

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54
papers

2,147
citations

186265

28
h-index

223800

46
g-index

57
all docs

57
docs citations

57
times ranked

2004
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrested Catalysis: Controlling Kumada Coupling Activity via a Redox-Active N-Heterocyclic Carbene. <i>Journal of the American Chemical Society</i> , 2010, 132, 9420-9429.	13.7	130
2	Redox-Active N-Heterocyclic Carbenes: Design, Synthesis, and Evaluation of Their Electronic Properties. <i>Organometallics</i> , 2009, 28, 6695-6706.	2.3	124
3	A Seven-Membered N,N -Diamidocarbene. <i>Organometallics</i> , 2010, 29, 4569-4578.	2.3	117
4	Redox-Active Ligands: An Advanced Tool To Modulate Polyethylene Microstructure. <i>Journal of the American Chemical Society</i> , 2016, 138, 774-777.	13.7	112
5	Conjugated Polymer-Based Fluorescence Turn-On Sensor for Nitric Oxide. <i>Organic Letters</i> , 2005, 7, 3573-3575.	4.6	106
6	Bimetallic N-Heterocyclic Carbene-Iridium Complexes: Investigating Metal-Metal and Metal-Ligand Communication via Electrochemistry and Phosphorescence Spectroscopy. <i>Inorganic Chemistry</i> , 2009, 48, 6924-6933.	4.0	101
7	Quinobis(imidazolylidene): Synthesis and Study of an Electron-Configurable Bis(N-Heterocyclic) Tj ETQq1 1 0.784314 rgBT /Overlocl	3.3	89
8	Generation, Translocation, and Action of Nitric Oxide in Living Systems. <i>Chemistry and Biology</i> , 2011, 18, 1211-1220.	6.0	85
9	Valorisation of waste to yield recyclable composites of elemental sulfur and lignin. <i>Journal of Materials Chemistry A</i> , 2019, 7, 15683-15690.	10.3	80
10	Mechanical Activation of Catalysts for C-C Bond Forming and Anionic Polymerization Reactions from a Single Macromolecular Reagent. <i>Journal of the American Chemical Society</i> , 2010, 132, 16631-16636.	13.7	79
11	Adapting N-Heterocyclic Carbene/Azide Coupling Chemistry for Polymer Synthesis: Enabling Access to Aromatic Polytriazenes. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5187-5190.	13.8	70
12	Oxidation of poly(enetetramine)s: a new strategy for the synthesis of conjugated polyelectrolytes. <i>Chemical Communications</i> , 2009, , 2124.	4.1	66
13	Advances in bis(N-heterocyclic carbene) chemistry: new classes of structurally dynamic materials. <i>Journal of Physical Organic Chemistry</i> , 2012, 25, 531-543.	1.9	59
14	Synthesis and Study of 5,5-Bibenzimidazolylidenes and Their Bimetallic Complexes. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 1729-1738.	2.0	56
15	Combining agriculture and energy industry waste products to yield recyclable, thermally healable copolymers of elemental sulfur and oleic acid. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1704-1710.	2.3	51
16	Conjugated Metallopolymers for Fluorescent Turn-On Detection of Nitric Oxide. <i>Inorganic Chemistry</i> , 2006, 45, 9367-9373.	4.0	42
17	Durable Cellulose-Sulfur Composites Derived from Agricultural and Petrochemical Waste. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900062.	5.3	42
18	Copolymers by Inverse Vulcanization of Sulfur with Pure or Technical-Grade Unsaturated Fatty Acids. <i>Journal of Polymer Science</i> , 2020, 58, 438-445.	3.8	40

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19	Selective fluorescence detection of nitroxyl over nitric oxide in buffered aqueous solution using a conjugated metallopolymer. <i>Polyhedron</i> , 2007, 26, 4625-4630.	2.2	37
20	Facile new approach to high sulfur-content materials and preparation of sulfur-lignin copolymers. <i>Journal of Materials Chemistry A</i> , 2020, 8, 548-553.	10.3	37
21	Thermally-healable network solids of sulfur-crosslinked poly(4-allyloxystyrene). <i>RSC Advances</i> , 2018, 8, 39074-39082.	3.6	36
22	Synthesis and Characterization of $\{Ni(NO)\}^{10}$ and $\{Co(NO)_2\}^{10}$ Complexes Supported by Thiolate Ligands. <i>Journal of the American Chemical Society</i> , 2008, 130, 15087-15098.	13.7	35
23	Indirectly Connected Bis(N-Heterocyclic Carbene) Bimetallic Complexes: Dependence of Metal-Metal Electronic Coupling on Linker Geometry. <i>Organometallics</i> , 2009, 28, 5142-5147.	2.3	35
24	Durable, acid-resistant copolymers from industrial by-product sulfur and microbially-produced tyrosine. <i>RSC Advances</i> , 2019, 9, 31460-31465.	3.6	35
25	Structurally Dynamic Conjugated Polymers. <i>Macromolecules</i> , 2010, 43, 6923-6935.	4.8	31
26	Recyclable, sustainable, and stronger than portland cement: a composite from unseparated biomass and fossil fuel waste. <i>Materials Advances</i> , 2020, 1, 590-594.	5.4	30
27	Luminescent Properties of Water-Soluble Conjugated Metallopolymers and Their Application to Fluorescent Nitric Oxide Detection. <i>Inorganic Chemistry</i> , 2006, 45, 8998-9005.	4.0	29
28	Polymer-Bound Dirhodium Tetracarboxylate Films for Fluorescent Detection of Nitric Oxide. <i>Inorganic Chemistry</i> , 2006, 45, 6222-6226.	4.0	29
29	Polymer cements by copolymerization of waste sulfur, oleic acid, and pozzolan cements. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 16, 100249.	3.3	28
30	Copolymerization of an aryl halide and elemental sulfur as a route to high sulfur content materials. <i>Polymer Chemistry</i> , 2020, 11, 1621-1628.	3.9	28
31	Green Synthesis of Thermoplastic Composites from a Terpenoid-Cellulose Ester. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3761-3765.	4.4	26
32	Robust, remeltable and remarkably simple to prepare biomass-sulfur composites. <i>Materials Advances</i> , 2020, 1, 2271-2278.	5.4	23
33	Methylation of Ylidene-Triazenes: Insight and Guidance for 1,3-Dipolar Cycloaddition Reactions. <i>European Journal of Organic Chemistry</i> , 2010, 2010, 6277-6282.	2.4	22
34	Synthesis, coordination chemistry and reactivity of transition metal complexes supported by a chelating benzimidazolylidene carboxylate ligand. <i>Inorganica Chimica Acta</i> , 2015, 426, 29-38.	2.4	22
35	Sterically Encumbered Bipyridyl-Derivatized Conjugated Polymers and Metallopolymers Incorporating Phenylenevinylene, Phenyleneethynylene, and Fluorenylene Segments. <i>Macromolecules</i> , 2012, 45, 6344-6352.	4.8	20
36	Comparison of 1,4-distyrylfluorene and 1,4-distyrylbenzene analogues: synthesis, structure, electrochemistry and photophysics. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 5425.	2.8	20

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37	Inverse vulcanization of octenyl succinate-modified corn starch as a route to biopolymer-sulfur composites. <i>Materials Advances</i> , 2021, 2, 2391-2397.	5.4	20
38	Sulfur-Containing Polymers Prepared from Fatty Acid-Derived Monomers: Application of Atom-Economical Thiol-ene/Thiol-yne Click Reactions and Inverse Vulcanization Strategies. <i>Sustainable Chemistry</i> , 2020, 1, 209-237.	4.7	18
39	Bipyridyl-modified phosphonium polyelectrolytes: synthesis, photophysics, metal ion coordination and layer-by-layer assembly with anionic conjugated polymers. <i>Polymer Chemistry</i> , 2013, 4, 5387.	3.9	14
40	Catalytic Radical Reduction in Aqueous Solution by a Ruthenium Hydride Intermediate. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8556-8560.	13.8	14
41	NAD ⁺ as a Hydride Donor and Reductant. <i>Journal of the American Chemical Society</i> , 2016, 138, 15833-15836.	13.7	14
42	Copolymerization of a Bisphenol a Derivative and Elemental Sulfur by the RASP Process. <i>Sustainable Chemistry</i> , 2020, 1, 183-197.	4.7	12
43	Hydrogen peroxide as a hydride donor and reductant under biologically relevant conditions. <i>Chemical Science</i> , 2019, 10, 2025-2033.	7.4	11
44	Net charge effects in N-heterocyclic carbene-ruthenium complexes with similar oxidation states and coordination geometries. <i>Inorganica Chimica Acta</i> , 2015, 435, 320-326.	2.4	8
45	Thermomorphological and mechanical properties of vulcanized octenyl succinate/terpenoid-derivatized corn starch composites. <i>Materials Advances</i> , 2022, 3, 4186-4193.	5.4	8
46	Catalytic radical reduction in aqueous solution via oxidation of biologically-relevant alcohols. <i>Chemical Science</i> , 2016, 7, 4052-4058.	7.4	6
47	An organometallic catalase mimic with exceptional activity, H ₂ O ₂ stability, and catalase/peroxidase selectivity. <i>Dalton Transactions</i> , 2021, 50, 15493-15501.	3.3	5
48	Synthesis, photophysical and electrochemical properties of conjugated polymers incorporating 9,9-dialkyl-1,4-fluorenylene units with thiophene, carbazole and triarylamine comonomers. <i>Polymer Chemistry</i> , 2012, 3, 3318.	3.9	3
49	Conjugated Polymers Featuring Oxacyclophane-scaffolded π -Stacking Interactions. <i>Macromolecular Chemistry and Physics</i> , 2014, 215, 351-357.	2.2	3
50	Catalytic Radical Reduction in Aqueous Solution by a Ruthenium Hydride Intermediate. <i>Angewandte Chemie</i> , 2016, 128, 8698-8702.	2.0	1
51	Conjugated polymers with m-pyridine linkages: synthesis, photophysics, solution structure and film morphology. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8113-8121.	5.5	0
52	Donor-Acceptor 1,4-Fluorenylene Chromophores: Photophysics, Electrochemistry, and Synthesis through a Route for Asymmetric Chromophore Preparation. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 5998-6009.	2.4	0
53	Preparation of poly(p-phenylene vinylene) derivatives by a debromination-chain polymerization-debromination sequence. <i>European Polymer Journal</i> , 2015, 70, 197-202.	5.4	0
54	Biologically-relevant radical reduction by a ruthenium catalyst. <i>Free Radical Biology and Medicine</i> , 2018, 128, S58.	2.9	0