

Charles E Diesendruck

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

70
papers

3,284
citations

27
h-index

56
g-index

88
ext. papers

3,840
ext. citations

7.7
avg, IF

5.72
L-index

#	Paper	IF	Citations
70	Biomimetic Self-Healing. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10428-47	16.4	271
69	Effect of Water on the Stability of Quaternary Ammonium Groups for Anion Exchange Membrane Fuel Cell Applications. <i>Chemistry of Materials</i> , 2017 , 29, 4425-4431	9.6	214
68	Water in N-heterocyclic carbene-assisted catalysis. <i>Chemical Reviews</i> , 2015 , 115, 4607-92	68.1	190
67	Continuous self-healing life cycle in vascularized structural composites. <i>Advanced Materials</i> , 2014 , 26, 4302-8	24	167
66	Proton-coupled mechanochemical transduction: a mechanogenerated acid. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12446-9	16.4	163
65	Mechanically triggered heterolytic unzipping of a low-ceiling-temperature polymer. <i>Nature Chemistry</i> , 2014 , 6, 623-8	17.6	157
64	Poly(bis-arylimidazoliums) possessing high hydroxide ion exchange capacity and high alkaline stability. <i>Nature Communications</i> , 2019 , 10, 2306	17.4	149
63	The critical relation between chemical stability of cations and water in anion exchange membrane fuel cells environment. <i>Journal of Power Sources</i> , 2018 , 375, 351-360	8.9	137
62	A Thermally Switchable Latent Ruthenium Olefin Metathesis Catalyst. <i>Organometallics</i> , 2008 , 27, 811-813	3.8	136
61	Water – A key parameter in the stability of anion exchange membrane fuel cells. <i>Current Opinion in Electrochemistry</i> , 2018 , 9, 173-178	7.2	105
60	Photoactivation of Ruthenium Olefin Metathesis Initiators. <i>Organometallics</i> , 2009 , 28, 4652-4655	3.8	105
59	End group characterization of poly(phthalaldehyde): surprising discovery of a reversible, cationic macrocyclization mechanism. <i>Journal of the American Chemical Society</i> , 2013 , 135, 12755-61	16.4	99
58	Water as a Promoter and Catalyst for Dioxxygen Electrochemistry in Aqueous and Organic Media. <i>ACS Catalysis</i> , 2015 , 5, 6600-6607	13.1	92
57	Predicting the cis-trans dichloro configuration of group 15-16 chelated ruthenium olefin metathesis complexes: a DFT and experimental study. <i>Inorganic Chemistry</i> , 2009 , 48, 10819-25	5.1	89
56	The Versatile Alkylidene Moiety in Ruthenium Olefin Metathesis Catalysts. <i>European Journal of Inorganic Chemistry</i> , 2009 , 2009, 4185-4203	2.3	81
55	Solvent Swelling Activation of a Mechanophore in a Polymer Network. <i>Macromolecules</i> , 2014 , 47, 2690-2694	5.9	78
54	Chemical stability of poly(phenylene oxide)-based ionomers in an anion exchange-membrane fuel cell environment. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22234-22239	13	78

53	Polycyclooctadiene complexes of rhodium(I): direct access to organometallic nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5767-70	16.4	74
52	Widening the Latency Gap in Chelated Ruthenium Olefin Metathesis Catalysts. <i>Organometallics</i> , 2011 , 30, 3430-3437	3.8	64
51	A latent s-chelated ruthenium benzylidene initiator for ring-opening metathesis polymerization. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4209-4213	2.5	61
50	Ligand Isomerization in Sulfur-Chelated Ruthenium Benzylidenes. <i>Organometallics</i> , 2011 , 30, 1607-1615	3.8	57
49	Depolymerizable, adaptive supramolecular polymer nanoparticles and networks. <i>Polymer Chemistry</i> , 2014 , 5, 3788-3794	4.9	44
48	Latent and Switchable Olefin Metathesis Catalysts. <i>Macromolecular Symposia</i> , 2010 , 293, 33-38	0.8	39
47	Mechanical Unfolding and Thermal Refolding of Single-Chain Nanoparticles Using Ligand-Metal Bonds. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7256-7260	16.4	37
46	N-Arylation of Tertiary Amines under Mild Conditions. <i>Organic Letters</i> , 2016 , 18, 980-3	6.2	35
45	Enabling Room-Temperature Mechanochromic Activation in a Glassy Polymer: Synthesis and Characterization of Spiropyran Polycarbonate. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10060-10067	16.4	34
44	Homodinuclear ruthenium catalysts for dimer ring-closing metathesis. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6422-5	16.4	34
43	Dynamic Covalent Macrocyclic Poly(phthalaldehyde)s: Scrambling Cyclic Homopolymer Mixtures Produces Multi-Block and Random Cyclic Copolymers. <i>Macromolecules</i> , 2013 , 46, 8121-8128	5.5	27
42	BF ₃ -promoted electrochemical properties of quinoxaline in propylene carbonate. <i>RSC Advances</i> , 2015 , 5, 18822-18831	3.7	25
41	Intramolecular Cross-Linking: Addressing Mechanochemistry with a Bioinspired Approach. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6431-6434	16.4	24
40	Changes of Anion Exchange Membrane Properties During Chemical Degradation. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 360-367	4.3	23
39	Superoxide (Electro)Chemistry on Well-Defined Surfaces in Organic Environments. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15909-15914	3.8	23
38	Polyphthalaldehyde: Synthesis, Derivatives, and Applications. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700519	4.8	23
37	The mechanochemical production of phenyl cations through heterolytic bond scission. <i>Faraday Discussions</i> , 2014 , 170, 385-94	3.6	22
36	Biomimetische Selbstheilung. <i>Angewandte Chemie</i> , 2015 , 127, 10572-10593	3.6	21

35	Divergent Macrocyclization Mechanisms in the Cationic Initiated Polymerization of Ethyl Glyoxylate. <i>Macromolecules</i> , 2014 , 47, 3603-3607	5.5	19
34	Increasing the Alkaline Stability of π -Diaryl Carbazolium Salts Using Substituent Electronic Effects. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49617-49625	9.5	18
33	Following Homolytic Mechanochemical Kinetics with a Pyrenyl Nitron Spin Trap. <i>ACS Macro Letters</i> , 2017 , 6, 42-45	6.6	17
32	Highly Stretchable Polymers: Mechanical Properties Improvement by Balancing Intra- and Intermolecular Interactions. <i>Advanced Functional Materials</i> , 2020 , 30, 1901806	15.6	17
31	The Effect of Intrachain Cross-Linking on the Thermomechanical Behavior of Bulk Polymers Assembled Solely from Single Chain Polymer Nanoparticles. <i>Macromolecules</i> , 2018 , 51, 7160-7168	5.5	16
30	Stability and activity of cis-dichloro ruthenium olefin metathesis precatalysts bearing chelating sulfur alkylidenes. <i>Journal of Organometallic Chemistry</i> , 2014 , 769, 24-28	2.3	15
29	The effect of intramolecular cross links on the mechanochemical fragmentation of polymers in solution. <i>Chemical Communications</i> , 2017 , 53, 10132-10135	5.8	15
28	The Effect of Intramolecular Cross-Linking on Polymer Interactions in Solution. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800407	4.8	14
27	Tailoring single chain polymer nanoparticle thermo-mechanical behavior by cross-link density. <i>Soft Matter</i> , 2017 , 13, 2808-2816	3.6	12
26	Advantages and limitations of diisocyanates in intramolecular collapse. <i>Polymer Chemistry</i> , 2017 , 8, 3712-3720	4.7	11
25	Effect of disulphide loop length on mechanochemical structural stability of macromolecules. <i>Chemical Communications</i> , 2020 , 56, 2143-2146	5.8	11
24	Alkyne mechanochemistry: putative activation by transoidal bending. <i>Chemical Communications</i> , 2014 , 50, 13235-8	5.8	11
23	Strategies for the Synthesis of N-Arylammonium Salts. <i>Synthesis</i> , 2017 , 49, 3535-3545	2.9	11
22	An Effective Synthesis of N,N-Diphenyl Carbazolium Salts. <i>Synlett</i> , 2018 , 29, 1314-1318	2.2	10
21	Mechanical and Thermomechanical Characterization of Glassy Thermoplastics with Intrachain Cross-Links. <i>Macromolecules</i> , 2017 , 50, 6415-6420	5.5	10
20	Polycyclooctadiene Complexes of Rhodium(I): Direct Access to Organometallic Nanoparticles. <i>Angewandte Chemie</i> , 2013 , 125, 5879-5882	3.6	10
19	Effect of intramolecular crosslinker properties on the mechanochemical fragmentation of covalently folded polymers. <i>Journal of Polymer Science</i> , 2020 , 58, 692-703	2.4	9
18	Bridging experiments and theory: isolating the effects of metal-ligand interactions on viscoelasticity of reversible polymer networks. <i>Soft Matter</i> , 2020 , 16, 8591-8601	3.6	9

17	Long-lasting, monovalent-selective capacitive deionization electrodes. <i>Npj Clean Water</i> , 2021 , 4,	11.2	9
16	Intramolecular Cross-Linking: Addressing Mechanochemistry with a Bioinspired Approach. <i>Angewandte Chemie</i> , 2017 , 129, 6531-6534	3.6	8
15	Flow Photochemistry for Single-Chain Polymer Nanoparticle Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2042-2046	16.4	8
14	Single chain polymer nanoparticles as shear-resilient viscosity modifiers for lubricating oils. <i>Reactive and Functional Polymers</i> , 2018 , 131, 237-242	4.6	7
13	The working mechanisms of low molecular weight polynaphthalene sulfonate superplasticizers. <i>Construction and Building Materials</i> , 2020 , 240, 117891	6.7	6
12	The Reaction Mechanism Between Tetraarylammonium Salts and Hydroxide. <i>European Journal of Organic Chemistry</i> , 2020 , 2020, 3161-3168	3.2	5
11	Oligomerisation reactions of beta substituted thiols in water. <i>RSC Advances</i> , 2013 , 3, 1735-1738	3.7	5
10	Ligand Valency Effects on the Alkaline Stability of Metallopolymer Anion-Exchange Membranes. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100238	4.8	5
9	Mechanophores for Self-Healing Applications 2013 , 193-214		4
8	Olefination of N-Sulfinylimines under Mild Conditions. <i>European Journal of Organic Chemistry</i> , 2017 , 2017, 1184-1190	3.2	2
7	A 50-Year Long Lesson. <i>Israel Journal of Chemistry</i> , 2015 , 55, 1154-1155	3.4	2
6	Chemical Communication between Organometallic Single-Chain Polymer Nanoparticles. <i>Chemistry - A European Journal</i> , 2020 , 26, 15835-15838	4.8	2
5	Template-Free Formation of Regular Macroporosity in Carbon Materials Made from a Folded Polymer Precursor. <i>Small</i> , 2021 , 17, e2100712	11	1
4	A surprising relation between operating temperature and stability of anion exchange membrane fuel cells. <i>Journal of Power Sources Advances</i> , 2021 , 11, 100066	3.3	1
3	Innentitelbild: Polycyclooctadiene Complexes of Rhodium(I): Direct Access to Organometallic Nanoparticles (Angew. Chem. 22/2013). <i>Angewandte Chemie</i> , 2013 , 125, 5762-5762	3.6	
2	Crystal structure of 1,3-bis-(2,3-di-methyl-quinoxalin-6-yl)benzene. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015 , 71, 1429-32	0.7	
1	Flow Photochemistry for Single-Chain Polymer Nanoparticle Synthesis. <i>Angewandte Chemie</i> , 2021 , 133, 2070-2074	3.6	