

Bilge Baytekin

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,633
citations

257101

24
h-index

205818

48
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51
all docs

51
docs citations

51
times ranked

2915
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical Tracking of Temperature by Concurrent Periodic Precipitation Pattern Formation in Polyacrylamide Gels. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7252-7260.	4.0	8
2	Online lubricant degradation monitoring using contact charging of polymers. <i>Applied Surface Science</i> , 2022, 584, 152593.	3.1	2
3	A sustainable preparation of catalytically active and antibacterial cellulose metal nanocomposites via ball milling of cellulose. <i>Green Chemistry</i> , 2020, 22, 455-464.	4.6	35
4	Mechanical Control of Periodic Precipitation in Stretchable Gels to Retrieve Information on Elastic Deformation and for the Complex Patterning of Matter. <i>Advanced Materials</i> , 2020, 32, e1905779.	11.1	19
5	Why Does Wood Not Get Contact Charged? Lignin as an Antistatic Additive for Common Polymers. <i>Chemistry of Materials</i> , 2020, 32, 7438-7444.	3.2	24
6	Ultrasonication for Environmentally Friendly Preparation of Antimicrobial and Catalytically Active Nanocomposites of Cellulosic Textiles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 18879-18888.	3.2	21
7	Stretchable Gels: Mechanical Control of Periodic Precipitation in Stretchable Gels to Retrieve Information on Elastic Deformation and for the Complex Patterning of Matter (<i>Adv. Mater.</i> 10/2020). <i>Advanced Materials</i> , 2020, 32, 2070077.	11.1	1
8	Design, Fabrication, and Locomotion Analysis of an Untethered Miniature Soft Quadruped, Squad. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 3854-3860.	3.3	13
9	Mechanochemical generation of singlet oxygen. <i>RSC Advances</i> , 2020, 10, 9182-9186.	1.7	17
10	Self-Regulating Plant Robots: Bioinspired Heliotropism and Nyctinasty. <i>Soft Robotics</i> , 2020, 7, 444-450.	4.6	15
11	Joint Design and Fabrication for Multi-Material Soft/Hybrid Robots. , 2019, , .		4
12	The morphological changes upon cryomilling of cellulose and concurrent generation of mechanoradicals. <i>Polymer Degradation and Stability</i> , 2019, 168, 108945.	2.7	13
13	Control of triboelectric charges on common polymers by photoexcitation of organic dyes. <i>Nature Communications</i> , 2019, 10, 276.	5.8	27
14	The Charging Events in Contact-Separation Electrification. <i>Scientific Reports</i> , 2018, 8, 2472.	1.6	44
15	Slit Tubes for Semisoft Pneumatic Actuators. <i>Advanced Materials</i> , 2018, 30, 1704446.	11.1	68
16	Artificial Heliotropism and Nyctinasty Based on Optomechanical Feedback and No Electronics. <i>Soft Robotics</i> , 2018, 5, 93-98.	4.6	13
17	Minimizing friction, wear, and energy losses by eliminating contact charging. <i>Science Advances</i> , 2018, 4, eaau3808.	4.7	60
18	Mechanochemical Activation and Patterning of an Adhesive Surface toward Nanoparticle Deposition. <i>Journal of the American Chemical Society</i> , 2015, 137, 1726-1729.	6.6	39

#	ARTICLE	IF	CITATIONS
19	Mechanical Control of Surface Adsorption by Nanoscale Cracking. <i>Advanced Materials</i> , 2014, 26, 3667-3672.	11.1	5
20	Mechanically Driven Activation of Polyaniline into Its Conductive Form. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6946-6950.	7.2	25
21	Programmable multilayers of nanometer-sized macrocycles on solid support and stimuli-controlled on-surface pseudorotaxane formation. <i>Chemical Science</i> , 2013, 4, 3131.	3.7	20
22	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. <i>Energy and Environmental Science</i> , 2013, 6, 3467.	15.6	73
23	Control of Surface Charges by Radicals as a Principle of Antistatic Polymers Protecting Electronic Circuitry. <i>Science</i> , 2013, 341, 1368-1371.	6.0	148
24	Estimating chemical reactivity and cross-influence from collective chemical knowledge. <i>Chemical Science</i> , 2012, 3, 1497.	3.7	26
25	What Really Drives Chemical Reactions on Contact Charged Surfaces?. <i>Journal of the American Chemical Society</i> , 2012, 134, 7223-7226.	6.6	111
26	Mechanoradicals Created in "Polymeric Sponges" Drive Reactions in Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3596-3600.	7.2	78
27	Material Transfer and Polarity Reversal in Contact Charging. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4843-4847.	7.2	154
28	Rewiring Chemistry: Algorithmic Discovery and Experimental Validation of One-Pot Reactions in the Network of Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7922-7927.	7.2	85
29	Back Cover: Material Transfer and Polarity Reversal in Contact Charging (<i>Angew. Chem. Int. Ed.</i>)	7.2	10
30	Light Harvesting in Multichromophoric Rotaxanes. <i>Chemistry - A European Journal</i> , 2012, 18, 1528-1535.	1.7	28
31	Phenanthroline- and Terpyridine-Substituted Tetralactam Macrocycles: A Facile Route to Rigid Di- and Trivalent Receptors and Interlocked Molecules. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1171-1178.	1.2	8
32	The Mosaic of Surface Charge in Contact Electrification. <i>Science</i> , 2011, 333, 308-312.	6.0	667
33	Is Water Necessary for Contact Electrification?. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6766-6770.	7.2	101
34	Hierarchical Self-Assembly of Metallo-Supramolecular Nanospheres. <i>Small</i> , 2009, 5, 194-197.	5.2	11
35	Dendrimer Disassembly in the Gas Phase: A Cascade Fragmentation Reaction of Fractal Dendrons. <i>Chemistry - A European Journal</i> , 2009, 15, 7139-7149.	1.7	16
36	Metallo-Supramolecular Nanospheres via Hierarchical Self-Assembly. <i>Chemistry of Materials</i> , 2009, 21, 2980-2992.	3.2	19

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37	A Modular "Toolbox" Approach to Flexible Branched Multimacrocyclic Hosts as Precursors for Multiply Interlocked Architectures. <i>Chemistry - A European Journal</i> , 2008, 14, 10012-10028.	1.7	19
38	Mass spectrometric studies of non-covalent compounds: why supramolecular chemistry in the gas phase?. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2825.	1.5	100
39	Mass spectrometry as a tool in dendrimer chemistry: from self-assembling dendrimers to dendrimer gas-phase host-guest chemistry. <i>Journal of Physical Organic Chemistry</i> , 2006, 19, 479-490.	0.9	29
40	How useful is mass spectrometry for the characterization of dendrimers?. <i>International Journal of Mass Spectrometry</i> , 2006, 249-250, 138-148.	0.7	40
41	Theory and Experiment in Concert: Templated Synthesis of Amide Rotaxanes, Catenanes, and Knots. <i>Chemistry - A European Journal</i> , 2004, 10, 4777-4789.	1.7	62
42	Novel fluorescent chemosensor for anions via modulation of oxidative PET: a remarkable 25-fold enhancement of emission. <i>Tetrahedron Letters</i> , 2003, 44, 5649-5651.	0.7	57
43	Modulation of Boradiazaindacene Emission by Cation-Mediated Oxidative PET. <i>Organic Letters</i> , 2002, 4, 2857-2859.	2.4	190
44	Thermoreversible Gelation of Isotropic and Liquid Crystalline Solutions of a "Sticky" Rodlike Polymer. <i>Macromolecules</i> , 2000, 33, 4427-4432.	2.2	22