

# Bilge Baytekin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4247472/publications.pdf>

Version: 2024-02-01

44  
papers

2,633  
citations

257101

24  
h-index

205818

48  
g-index

51  
all docs

51  
docs citations

51  
times ranked

2915  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Mosaic of Surface Charge in Contact Electrification. <i>Science</i> , 2011, 333, 308-312.	6.0	667
2	Modulation of Boradiazaindacene Emission by Cation-Mediated Oxidative PET. <i>Organic Letters</i> , 2002, 4, 2857-2859.	2.4	190
3	Material Transfer and Polarity Reversal in Contact Charging. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4843-4847.	7.2	154
4	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
5	What Really Drives Chemical Reactions on Contact Charged Surfaces?. <i>Journal of the American Chemical Society</i> , 2012, 134, 7223-7226.	6.6	111
6	Is Water Necessary for Contact Electrification?. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6766-6770.	7.2	101
7	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
8	Rewiring Chemistry: Algorithmic Discovery and Experimental Validation of Oneâ€Pot Reactions in the Network of Organic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7922-7927.	7.2	85
9	Mechanoradicals Created in â€Polymeric Spongesâ€Drive Reactions in Aqueous Media. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3596-3600.	7.2	78
10	Retrieving and converting energy from polymers: deployable technologies and emerging concepts. <i>Energy and Environmental Science</i> , 2013, 6, 3467.	15.6	73
11	Slit Tubes for Semisoft Pneumatic Actuators. <i>Advanced Materials</i> , 2018, 30, 1704446.	11.1	68
12	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
13	Minimizing friction, wear, and energy losses by eliminating contact charging. <i>Science Advances</i> , 2018, 4, eaau3808.	4.7	60
14	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
15	The Charging Events in Contact-Separation Electrification. <i>Scientific Reports</i> , 2018, 8, 2472.	1.6	44
16	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
17	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
18	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

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19	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
20	Light Harvesting in Multichromophoric Rotaxanes. <i>Chemistry - A European Journal</i> , 2012, 18, 1528-1535.	1.7	28
21	Control of triboelectric charges on common polymers by photoexcitation of organic dyes. <i>Nature Communications</i> , 2019, 10, 276.	5.8	27
22	Estimating chemical reactivity and cross-influence from collective chemical knowledge. <i>Chemical Science</i> , 2012, 3, 1497.	3.7	26
23	Mechanically Driven Activation of Polyaniline into Its Conductive Form. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6946-6950.	7.2	25
24	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
25	Thermoreversible Gelation of Isotropic and Liquid Crystalline Solutions of a "Sticky" Rodlike Polymer. <i>Macromolecules</i> , 2000, 33, 4427-4432.	2.2	22
26	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
27	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
28	A Modular "Toolbox" Approach to Flexible Branched Multimacrocylic Hosts as Precursors for Multiply Interlocked Architectures. <i>Chemistry - A European Journal</i> , 2008, 14, 10012-10028.	1.7	19
29	Metallo-Supramolecular Nanospheres via Hierarchical Self-Assembly. <i>Chemistry of Materials</i> , 2009, 21, 2980-2992.	3.2	19
30	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
31	Mechanochemical generation of singlet oxygen. <i>RSC Advances</i> , 2020, 10, 9182-9186.	1.7	17
32	Dendrimer Disassembly in the Gas Phase: A Cascade Fragmentation Reaction of Fréchet Dendrons. <i>Chemistry - A European Journal</i> , 2009, 15, 7139-7149.	1.7	16
33	Self-Regulating Plant Robots: Bioinspired Heliotropism and Nyctinasty. <i>Soft Robotics</i> , 2020, 7, 444-450.	4.6	15
34	Artificial Heliotropism and Nyctinasty Based on Optomechanical Feedback and No Electronics. <i>Soft Robotics</i> , 2018, 5, 93-98.	4.6	13
35	The morphological changes upon cryomilling of cellulose and concurrent generation of mechanoradicals. <i>Polymer Degradation and Stability</i> , 2019, 168, 108945.	2.7	13
36	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

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37	Hierarchical Self-Assembly of Metallo-Supramolecular Nanospheres. <i>Small</i> , 2009, 5, 194-197.	5.2	11
38	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
39	Chemical Tracking of Temperature by Concurrent Periodic Precipitation Pattern Formation in Polyacrylamide Gels. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7252-7260.	4.0	8
40	Mechanical Control of Surface Adsorption by Nanoscale Cracking. <i>Advanced Materials</i> , 2014, 26, 3667-3672.	11.1	5
41	Joint Design and Fabrication for Multi-Material Soft/Hybrid Robots. , 2019, , .		4
42	Online lubricant degradation monitoring using contact charging of polymers. <i>Applied Surface Science</i> , 2022, 584, 152593.	3.1	2
43	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
44	Back Cover: Material Transfer and Polarity Reversal in Contact Charging ( <i>Angew. Chem. Int. Ed.</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 40	7.2	0