

Eric Buhler

List of Publications by Year in descending order

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54
papers

2,543
citations

186265

28
h-index

189892

50
g-index

58
all docs

58
docs citations

58
times ranked

3062
citing authors

#	ARTICLE	IF	CITATIONS
1	Muscle-like Supramolecular Polymers: Integrated Motion from Thousands of Molecular Machines. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12504-12508.	13.8	215
2	Dynamic Combinatorial Evolution within Self-Replicating Supramolecular Assemblies. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1093-1096.	13.8	165
3	Controlled Sol-Gel Transitions by Actuating Molecular Machine Based Supramolecular Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 4923-4928.	13.7	117
4	The Hierarchical Self-Assembly of Charge Nanocarriers: A Highly Cooperative Process Promoted by Visible Light. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6974-6978.	13.8	114
5	Bistable [2] Daisy Chain Rotaxanes as Reversible Muscle-like Actuators in Mechanically Active Gels. <i>Journal of the American Chemical Society</i> , 2017, 139, 14825-14828.	13.7	112
6	Glycodynamers: Dynamic Polymers Bearing Oligosaccharides Residues - Generation, Structure, Physicochemical, Component Exchange, and Lectin Binding Properties. <i>Journal of the American Chemical Society</i> , 2010, 132, 2573-2584.	13.7	111
7	Chain Persistence Length and Structure in Hyaluronan Solutions: Ionic Strength Dependence for a Model Semirigid Polyelectrolyte. <i>Macromolecules</i> , 2004, 37, 1600-1610.	4.8	106
8	Double dynamic self-healing polymers: supramolecular and covalent dynamic polymers based on the bis-iminocarbohydrazide motif. <i>Polymer International</i> , 2014, 63, 1400-1405.	3.1	95
9	Structural and Dynamical Properties of Semirigid Polyelectrolyte Solutions: A Light-Scattering Study. <i>Macromolecules</i> , 2000, 33, 2098-2106.	4.8	91
10	Hierarchical Self-Assembly of Supramolecular Muscle-like Fibers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 703-707.	13.8	91
11	Structural and Rheological Properties of Hydrophobically Modified Polysaccharide Associative Networks. <i>Langmuir</i> , 2004, 20, 3583-3592.	3.5	81
12	Phase Behavior of Associating Polyelectrolyte Polysaccharides. 1. Aggregation Process in Dilute Solution. <i>Macromolecules</i> , 2001, 34, 5287-5294.	4.8	71
13	Reversible constitutional switching between macrocycles and polymers induced by shape change in a dynamic covalent system. <i>New Journal of Chemistry</i> , 2009, 33, 271.	2.8	58
14	How does the size of gold nanoparticles depend on citrate to gold ratio in Turkevich synthesis? Final answer to a debated question. <i>Journal of Colloid and Interface Science</i> , 2017, 492, 191-198.	9.4	58
15	Supramolecular Self-Assembly and Radical Kinetics in Conducting Self-Replicating Nanowires. <i>ACS Nano</i> , 2014, 8, 10111-10124.	14.6	55
16	Biodynamers: Self-Organization-Driven Formation of Doubly Dynamic Proteoids. <i>Journal of the American Chemical Society</i> , 2012, 134, 4177-4183.	13.7	54
17	The Tri-urea Motif and Its Incorporation into Polydimethylsiloxane-Based Supramolecular Materials Presenting Self-Healing Features. <i>Chemistry - A European Journal</i> , 2013, 19, 8814-8820.	3.3	52
18	Self-Diffusion and Collective Diffusion of Charged Colloids Studied by Dynamic Light Scattering. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13186-13194.	2.6	48

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19	Structural and Morphological Diversity of (1 \rightarrow 3)- β -D-Glucans Synthesized in Vitro by Enzymes from <i>Saprolegnia monoica</i> . Comparison with a Corresponding in Vitro Product from Blackberry (<i>Rubus</i>) Tj ETQq1 1 0.7843144rgBT /Over	13.7	45
20	Modulation of the Supramolecular Structure of G-Quartet Assemblies by Dynamic Covalent Decoration. <i>Journal of the American Chemical Society</i> , 2007, 129, 10058-10059.	4.8	43
21	Aggregation Behavior in Semidilute Rigid and Semirigid Polysaccharide Solutions. <i>Macromolecules</i> , 2002, 35, 3708-3716.	5.4	43
22	Structural Properties of Colloidal Complexes between Condensed Tannins and Polysaccharide Hyaluronan. <i>Biomacromolecules</i> , 2012, 13, 751-759.	4.8	35
23	Dynablocks: Structural Modulation of Responsive Combinatorial Self-Assemblies at Mesoscale. <i>Macromolecules</i> , 2009, 42, 5913-5915.	3.3	33
24	Multivalency by Self-Assembly: Binding of Concanavalin A to Metallo-supramolecular Architectures Decorated with Multiple Carbohydrate Groups. <i>Chemistry - A European Journal</i> , 2014, 20, 6960-6977.	3.9	28
25	Generation of supramolecular microcapsules by oxidative covalent polymerization of a ditopic supramolecular building block. <i>Polymer Chemistry</i> , 2013, 4, 2949.	2.7	26
26	Ammonium lithocholate nanotubes: stability and copper metallization. <i>Soft Matter</i> , 2006, 2, 517.	2.7	26
27	Control over the electrostatic self-assembly of nanoparticle semiflexible biopolyelectrolyte complexes. <i>Soft Matter</i> , 2013, 9, 5004.	3.4	23
28	Microtubule Nucleation from Stable Tubulin Oligomers. <i>Journal of Biological Chemistry</i> , 2002, 277, 50973-50979.	2.1	23
29	Dynamical properties of semidilute solutions of hydrogen-bonded supramolecular polymers. <i>Physical Review E</i> , 2007, 76, 061804.	3.1	23
30	Cooperative, bottom-up generation of rigid rod nanostructures through dynamic polymer chemistry. <i>Polymer International</i> , 2010, 59, 1477-1491.	2.7	23
31	SANS, SAXS, and light scattering investigations of pH-responsive dynamic combinatorial mesophases. <i>Soft Matter</i> , 2011, 7, 4787.	4.8	23
32	Double Dynamic Supramolecular Polymers of Covalent Oligo-Dynamers. <i>Macromolecules</i> , 2013, 46, 5664-5671.	3.3	23
33	An Easily Accessible Self-Healing Transparent Film Based on a 2D Supramolecular Network of Hydrogen-Bonding Interactions between Polymeric Chains. <i>Chemistry - A European Journal</i> , 2016, 22, 13513-13520.	5.6	23
34	Mechanical behaviour of contractile gels based on light-driven molecular motors. <i>Nanoscale</i> , 2019, 11, 5197-5202.	5.6	21
35	Light-triggered self-assembly of triarylamine-based nanospheres. <i>Nanoscale</i> , 2012, 4, 6748.	2.7	19
36	Biopolymer folding driven nanoparticle reorganization in bio-nanocomposites. <i>Soft Matter</i> , 2012, 8, 2930.		

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37	Role of the ratio of biopolyelectrolyte persistence length to nanoparticle size in the structural tuning of electrostatic complexes. <i>Physical Review E</i> , 2016, 94, 032504.	2.1	15
38	Integration of molecular machines into supramolecular materials: actuation between equilibrium polymers and crystal-like gels. <i>Nanoscale</i> , 2017, 9, 18456-18466.	5.6	15
39	Proteoid Dynamers with Tunable Properties. <i>Advanced Functional Materials</i> , 2016, 26, 6297-6305.	14.9	14
40	Nanorods of Well-Defined Length and Monodisperse Cross-Section Obtained from Electrostatic Complexation of Nanoparticles with a Semiflexible Biopolymer. <i>ACS Macro Letters</i> , 2012, 1, 857-861.	4.8	13
41	Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol- π -perylene self-assemblies. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5718.	2.8	13
42	Light Scattering Strategy for the Investigation of Time-Evolving Heterogeneous Supramolecular Self-Assemblies. <i>Physical Review Letters</i> , 2015, 115, 085501.	7.8	13
43	PREDICTIVE AND EXPERIMENTAL BEHAVIOUR OF HYALURONAN IN SOLUTION AND SOLID STATE. , 2002, , 37-46.		10
44	Shape-Tailored Colloidal Molecules Obtained by Self-Assembly of Model Gold Nanoparticles with Flexible Polyelectrolyte. <i>Langmuir</i> , 2015, 31, 5731-5737.	3.5	10
45	3D supramolecular self-assembly of [60]fullerene hexaadducts decorated with triarylamine molecules. <i>Chemical Communications</i> , 2018, 54, 7657-7660.	4.1	8
46	Hydrogen-Bonded Multifunctional Supramolecular Copolymers in Water. <i>Langmuir</i> , 2015, 31, 7738-7748.	3.5	7
47	Structural properties of contractile gels based on light-driven molecular motors: a small-angle neutron and X-ray study. <i>Soft Matter</i> , 2020, 16, 4008-4023.	2.7	6
48	Saccharide-Containing Dynamic Proteoids. <i>Chemistry - A European Journal</i> , 2017, 23, 16162-16166.	3.3	5
49	Lipid-DNAs as Solubilizers of <i>m</i> -THPC. <i>Chemistry - A European Journal</i> , 2018, 24, 798-802.	3.3	5
50	Self-Induced Crystallization in Charged Gold Nanoparticle-Semiflexible Biopolyelectrolyte Complexes. <i>Langmuir</i> , 2020, 36, 7925-7932.	3.5	5
51	Autopoietic Behavior of Dynamic Covalent Amphiphiles. <i>Chemistry - A European Journal</i> , 2018, 24, 17125-17137.	3.3	4
52	pH-Dependent morphology and optical properties of lysine-derived molecular biodynamers. <i>Materials Chemistry Frontiers</i> , 2020, 4, 905-909.	5.9	4
53	Dynamic Proteoids Generated From Dipeptide-Based Monomers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800099.	3.9	2
54	Homodyne dynamic light scattering in supramolecular polymer solutions: anomalous oscillations in intensity correlation function. <i>Soft Matter</i> , 2020, 16, 2971-2993.	2.7	1