

Eric Buhler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9070341/publications.pdf>

Version: 2024-02-01

54
papers

2,543
citations

185998

28
h-index

189595

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.	7.2	215
2	Dynamic Combinatorial Evolution within Self-Replicating Supramolecular Assemblies. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1093-1096.	7.2	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.	6.6	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.	7.2	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.	6.6	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.	6.6	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.	2.2	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.	1.6	95
9	Structural and Dynamical Properties of Semirigid Polyelectrolyte Solutions: A Light-Scattering Study. <i>Macromolecules</i> , 2000, 33, 2098-2106.	2.2	91
10	Hierarchical Self-Assembly of Supramolecular Muscle-like Fibers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 703-707.	7.2	91
11	Structural and Rheological Properties of Hydrophobically Modified Polysaccharide Associative Networks. <i>Langmuir</i> , 2004, 20, 3583-3592.	1.6	81
12	Phase Behavior of Associating Polyelectrolyte Polysaccharides. 1. Aggregation Process in Dilute Solution. <i>Macromolecules</i> , 2001, 34, 5287-5294.	2.2	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.	1.4	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.	5.0	58
15	Supramolecular Self-Assembly and Radical Kinetics in Conducting Self-Replicating Nanowires. <i>ACS Nano</i> , 2014, 8, 10111-10124.	7.3	55
16	Biodynamers: Self-Organization-Driven Formation of Doubly Dynamic Proteoids. <i>Journal of the American Chemical Society</i> , 2012, 134, 4177-4183.	6.6	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.	1.7	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.	1.2	48

#	ARTICLE	IF	CITATIONS
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 027843144rgBT /Over	6.6	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.	2.2	43
21	Aggregation Behavior in Semidilute Rigid and Semirigid Polysaccharide Solutions. <i>Macromolecules</i> , 2002, 35, 3708-3716.	2.6	43
22	Structural Properties of Colloidal Complexes between Condensed Tannins and Polysaccharide Hyaluronan. <i>Biomacromolecules</i> , 2012, 13, 751-759.	2.2	35
23	Dynablocks: Structural Modulation of Responsive Combinatorial Self-Assemblies at Mesoscale. <i>Macromolecules</i> , 2009, 42, 5913-5915.	1.7	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.	1.9	28
25	Generation of supramolecular microcapsules by oxidative covalent polymerization of a ditopic supramolecular building block. <i>Polymer Chemistry</i> , 2013, 4, 2949.	1.2	26
26	Ammonium lithocholate nanotubes: stability and copper metallization. <i>Soft Matter</i> , 2006, 2, 517.	1.2	26
27	Control over the electrostatic self-assembly of nanoparticle semiflexible biopolyelectrolyte complexes. <i>Soft Matter</i> , 2013, 9, 5004.	1.6	23
28	Microtubule Nucleation from Stable Tubulin Oligomers. <i>Journal of Biological Chemistry</i> , 2002, 277, 50973-50979.	0.8	23
29	Dynamical properties of semidilute solutions of hydrogen-bonded supramolecular polymers. <i>Physical Review E</i> , 2007, 76, 061804.	1.6	23
30	Cooperative, bottom-up generation of rigid rod nanostructures through dynamic polymer chemistry. <i>Polymer International</i> , 2010, 59, 1477-1491.	1.2	23
31	SANS, SAXS, and light scattering investigations of pH-responsive dynamic combinatorial mesophases. <i>Soft Matter</i> , 2011, 7, 4787.	2.2	23
32	Double Dynamic Supramolecular Polymers of Covalent Oligo-Dynamers. <i>Macromolecules</i> , 2013, 46, 5664-5671.	1.7	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.	2.8	23
34	Mechanical behaviour of contractile gels based on light-driven molecular motors. <i>Nanoscale</i> , 2019, 11, 5197-5202.	2.8	21
35	Light-triggered self-assembly of triarylamine-based nanospheres. <i>Nanoscale</i> , 2012, 4, 6748.	1.2	19
36	Biopolymer folding driven nanoparticle reorganization in bio-nanocomposites. <i>Soft Matter</i> , 2012, 8, 2930.		

#	ARTICLE	IF	CITATIONS
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.	0.8	15
38	Integration of molecular machines into supramolecular materials: actuation between equilibrium polymers and crystal-like gels. <i>Nanoscale</i> , 2017, 9, 18456-18466.	2.8	15
39	Proteoid Dynamers with Tunable Properties. <i>Advanced Functional Materials</i> , 2016, 26, 6297-6305.	7.8	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.	2.3	13
41	Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol- α -perylene self-assemblies. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 5718.	1.3	13
42	Light Scattering Strategy for the Investigation of Time-Evolving Heterogeneous Supramolecular Self-Assemblies. <i>Physical Review Letters</i> , 2015, 115, 085501.	2.9	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.	1.6	10
45	3D supramolecular self-assembly of [60]fullerene hexaadducts decorated with triarylamine molecules. <i>Chemical Communications</i> , 2018, 54, 7657-7660.	2.2	8
46	Hydrogen-Bonded Multifunctional Supramolecular Copolymers in Water. <i>Langmuir</i> , 2015, 31, 7738-7748.	1.6	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.	1.2	6
48	Saccharide-Containing Dynamic Proteoids. <i>Chemistry - A European Journal</i> , 2017, 23, 16162-16166.	1.7	5
49	Lipid-DNAs as Solubilizers of <i>m</i> -THPC. <i>Chemistry - A European Journal</i> , 2018, 24, 798-802.	1.7	5
50	Self-Induced Crystallization in Charged Gold Nanoparticle-Semiflexible Biopolyelectrolyte Complexes. <i>Langmuir</i> , 2020, 36, 7925-7932.	1.6	5
51	Autopoietic Behavior of Dynamic Covalent Amphiphiles. <i>Chemistry - A European Journal</i> , 2018, 24, 17125-17137.	1.7	4
52	pH-Dependent morphology and optical properties of lysine-derived molecular biodynamers. <i>Materials Chemistry Frontiers</i> , 2020, 4, 905-909.	3.2	4
53	Dynamic Proteoids Generated From Dipeptide-Based Monomers. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800099.	2.0	2
54	Homodyne dynamic light scattering in supramolecular polymer solutions: anomalous oscillations in intensity correlation function. <i>Soft Matter</i> , 2020, 16, 2971-2993.	1.2	1