

Kollbe Ahn

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

2,526
citations

471509

17
h-index

713466

21
g-index

25
all docs

25
docs citations

25
times ranked

3593
citing authors

#	ARTICLE	IF	CITATIONS
1	Toughening elastomers using mussel-inspired iron-catechol complexes. <i>Science</i> , 2017, 358, 502-505.	12.6	505
2	Surface-initiated self-healing of polymers in aqueous media. <i>Nature Materials</i> , 2014, 13, 867-872.	27.5	414
3	Underwater contact adhesion and microarchitecture in polyelectrolyte complexes actuated by solvent exchange. <i>Nature Materials</i> , 2016, 15, 407-412.	27.5	379
4	Perspectives on Mussel-Inspired Wet Adhesion. <i>Journal of the American Chemical Society</i> , 2017, 139, 10166-10171.	13.7	309
5	High-performance mussel-inspired adhesives of reduced complexity. <i>Nature Communications</i> , 2015, 6, 8663.	12.8	245
6	Thermally Stable, Transparent, Pressure-Sensitive Adhesives from Epoxidized and Dihydroxyl Soybean Oil. <i>Biomacromolecules</i> , 2011, 12, 1839-1843.	5.4	132
7	Microphase Behavior and Enhanced Wet-Cohesion of Synthetic Copolyampholytes Inspired by a Mussel Foot Protein. <i>Journal of the American Chemical Society</i> , 2015, 137, 9214-9217.	13.7	125
8	Self-healing polymers with nanomaterials and nanostructures. <i>Nano Today</i> , 2020, 30, 100826.	11.9	68
9	Significant Performance Enhancement of Polymer Resins by Bioinspired Dynamic Bonding. <i>Advanced Materials</i> , 2017, 29, 1703026.	21.0	63
10	Marine Bioinspired Underwater Contact Adhesion. <i>Biomacromolecules</i> , 2016, 17, 1869-1874.	5.4	56
11	1D and 2D NMR of nanocellulose in aqueous colloidal suspensions. <i>Carbohydrate Polymers</i> , 2014, 110, 360-366.	10.2	41
12	UV-curable pressure-sensitive adhesives derived from functionalized soybean oils and rosin ester. <i>Polymer International</i> , 2013, 62, 1293-1301.	3.1	37
13	Catechol-Functionalized Chitosan: Optimized Preparation Method and Its Interaction with Mucin. <i>Langmuir</i> , 2019, 35, 16013-16023.	3.5	32
14	Molecularly Smooth Self-Assembled Monolayer for High-Mobility Organic Field-Effect Transistors. <i>Nano Letters</i> , 2016, 16, 6709-6715.	9.1	31
15	Synthesis and Characterization of Amphiphilic Reduced Graphene Oxide with Epoxidized Methyl Oleate. <i>Advanced Materials</i> , 2012, 24, 2123-2129.	21.0	25
16	Ring opening of epoxidized methyl oleate using a novel acid-functionalized iron nanoparticle catalyst. <i>Green Chemistry</i> , 2012, 14, 136-142.	9.0	22
17	Bioinspired Catecholic Primers for Rigid and Ductile Dental Resin Composites. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1520-1527.	8.0	19
18	Gemini-Mediated Self-Disinfecting Surfaces to Address the Contact Transmission of Infectious Diseases. <i>Langmuir</i> , 2022, 38, 2162-2173.	3.5	9

#	ARTICLE	IF	CITATIONS
19	Mechanically Competent Chitosan-Based Bioadhesive for Tendon-to-Bone Repair. Advanced Healthcare Materials, 2022, 11, e2102344.	7.6	6
20	Dental Adhesion Enhancement on Zirconia Inspired by Mussel's Priming Strategy Using Catechol. Coatings, 2018, 8, 298.	2.6	5
21	Bioinspired Functional Gradients for Toughness Augmentation in Synthetic Polymer Systems. Macromolecular Chemistry and Physics, 2018, 219, 1800134.	2.2	3
22	Bioinspired Wear-Protective Coatings for Osteoarthritis. ACS Symposium Series, 2017, , 173-178.	0.5	0