

Gudrun Schmidt

List of Publications by Year in descending order

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39
papers

3,556
citations

159585

30
h-index

330143

37
g-index

42
all docs

42
docs citations

42
times ranked

4382
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocomposite polymer hydrogels. <i>Colloid and Polymer Science</i> , 2009, 287, 1-11.	2.1	629
2	A review on tough and sticky hydrogels. <i>Colloid and Polymer Science</i> , 2013, 291, 2031-2047.	2.1	312
3	Highly Extensible, Tough, and Elastomeric Nanocomposite Hydrogels from Poly(ethylene glycol) and Hydroxyapatite Nanoparticles. <i>Biomacromolecules</i> , 2011, 12, 1641-1650.	5.4	299
4	Transparent, elastomeric and tough hydrogels from poly(ethylene glycol) and silicate nanoparticles. <i>Acta Biomaterialia</i> , 2011, 7, 4139-4148.	8.3	210
5	Shear Orientation of Viscoelastic Polymer-Clay Solutions Probed by Flow Birefringence and SANS. <i>Macromolecules</i> , 2000, 33, 7219-7222.	4.8	164
6	Mechanically Tough Pluronic F127/Laponite Nanocomposite Hydrogels from Covalently and Physically Cross-Linked Networks. <i>Macromolecules</i> , 2011, 44, 8215-8224.	4.8	150
7	Assessment of using Laponite® cross-linked poly(ethylene oxide) for controlled cell adhesion and mineralization. <i>Acta Biomaterialia</i> , 2011, 7, 568-577.	8.3	149
8	Development of Biomedical Polymer-Silicate Nanocomposites: A Materials Science Perspective. <i>Materials</i> , 2010, 3, 2986-3005.	2.9	130
9	Physically Crosslinked Nanocomposites from Silicate-Crosslinked PEO: Mechanical Properties and Osteogenic Differentiation of Human Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , 2012, 12, 779-793.	4.1	116
10	Small-Angle Neutron Scattering from Viscoelastic Polymer-Clay Solutions. <i>Macromolecules</i> , 2002, 35, 4725-4732.	4.8	113
11	Photocrosslinked nanocomposite hydrogels from PEG and silica nanospheres: Structural, mechanical and cell adhesion characteristics. <i>Materials Science and Engineering C</i> , 2013, 33, 1800-1807.	7.3	109
12	Rheology and flow-birefringence from viscoelastic polymer-clay solutions. <i>Rheologica Acta</i> , 2002, 41, 45-54.	2.4	100
13	Large Scale Structures in Nanocomposite Hydrogels. <i>Macromolecules</i> , 2005, 38, 2047-2049.	4.8	99
14	Highly Extensible Bio-Nanocomposite Films with Direction-Dependent Properties. <i>Advanced Functional Materials</i> , 2010, 20, 429-436.	14.9	81
15	Dynamic Responses in Nanocomposite Hydrogels. <i>Macromolecules</i> , 2006, 39, 1614-1619.	4.8	77
16	Tuning Cell Adhesion by Incorporation of Charged Silicate Nanoparticles as Cross-Linkers to Polyethylene Oxide. <i>Macromolecular Bioscience</i> , 2010, 10, 1416-1423.	4.1	77
17	Addition of Chitosan to Silicate Cross-Linked PEO for Tuning Osteoblast Cell Adhesion and Mineralization. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3119-3127.	8.0	64
18	Unusual Multilayered Structures in Poly(ethylene oxide)/Laponite Nanocomposite Films. <i>Macromolecular Rapid Communications</i> , 2005, 26, 143-149.	3.9	49

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19	Structural Effects of Crosslinking a Biopolymer Hydrogel Derived from Marine Mussel Adhesive Protein. <i>Macromolecular Bioscience</i> , 2006, 6, 711-718.	4.1	48
20	Silicate Cross-Linked Bio-Nanocomposite Hydrogels from PEO and Chitosan. <i>Macromolecular Bioscience</i> , 2009, 9, 1028-1035.	4.1	46
21	Highly Extensible Bio-Nanocomposite Fibers. <i>Macromolecular Rapid Communications</i> , 2011, 32, 50-57.	3.9	46
22	Robust and Semi-Interpenetrating Hydrogels from Poly(ethylene glycol) and Collagen for Elastomeric Tissue Scaffolds. <i>Macromolecular Bioscience</i> , 2012, 12, 1490-1501.	4.1	46
23	High Strength Adhesives from Catechol Cross-Linking of Zein Protein and Plant Phenolics. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700159.	5.3	46
24	Robust and Adhesive Hydrogels from Cross-Linked Poly(ethylene glycol) and Silicate for Biomedical Use. <i>Macromolecular Bioscience</i> , 2013, 13, 59-66.	4.1	43
25	Structure and thermal properties of multilayered Laponite/PEO nanocomposite films. <i>Polymer</i> , 2006, 47, 7339-7348.	3.8	42
26	Layered structures of shear-oriented and multilayered PEO/silicate nanocomposite films. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2977.	2.8	37
27	Heterogeneity in nanocomposite hydrogels from poly(ethylene oxide) cross-linked with silicate nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2760.	2.8	34
28	Zein-Laponite nanocomposites with improved mechanical, thermal and barrier properties. <i>Journal of Materials Science</i> , 2018, 53, 7387-7402.	3.7	34
29	Shear-Induced Nanometer and Micrometer Structural Responses in Nanocomposite Hydrogels. <i>Macromolecules</i> , 2010, 43, 1041-1049.	4.8	33
30	Supramolecular structures in nanocomposite multilayered films. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1739.	2.8	32
31	Thermosensitive and Dissolution Properties in Nanocomposite Polymer Hydrogels. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1492-1497.	3.9	32
32	Orientation and relaxation of polymer-clay solutions studied by rheology and small-angle neutron scattering. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 3102-3112.	2.1	31
33	Strong Adhesives from Corn Protein and Tannic Acid. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900077.	5.3	22
34	Robust and Degradable Hydrogels from Poly(ethylene glycol) and Semi-Interpenetrating Collagen. <i>Macromolecules</i> , 2014, 47, 6408-6417.	4.8	20
35	Design and mechanistic understanding of graphene oxide reinforced zein nanocomposites with improved mechanical, barrier and thermal properties. <i>Journal of Materials Science</i> , 2019, 54, 12533-12552.	3.7	15
36	Polymer/Clay Nanocomposites: Influence of Ionic Strength on the Structure and Adhesion Characteristics in Multilayered Films. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 771-780.	3.6	14

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37	Tunable Tannic Acid-Zein Adhesives for Bonding Different Substrates. <i>Advanced Sustainable Systems</i> , 2022, 6, .	5.3	7
38	Dynamic Responses in Polymer-Clay Gels. <i>Materials Research Society Symposia Proceedings</i> , 2004, 840, Q2.7.1.	0.1	0
39	Macromol. Biosci. 12/2010. <i>Macromolecular Bioscience</i> , 2010, 10, .	4.1	0