

Andreas Hartwig

List of Publications by Year in descending order

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87
papers

1,798
citations

218677

26
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315739

38
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97
all docs

97
docs citations

97
times ranked

2117
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphonium-modified layered silicate epoxy resins nanocomposites and their combinations with ATH and organo-phosphorus fire retardants. <i>Polymers for Advanced Technologies</i> , 2006, 17, 281-293.	3.2	108
2	Linear Poly(methyl glycerol) and Linear Polyglycerol as Potent Protein and Cell Resistant Alternatives to Poly(ethylene glycol). <i>Chemistry - an Asian Journal</i> , 2010, 5, 1992-2000.	3.3	80
3	Shape memory polyurethanes cross-linked by surface modified silica particles. <i>Journal of Materials Chemistry</i> , 2009, 19, 1166.	6.7	72
4	Experimental and quantitative assessment of flame retardancy by the shielding effect in layered silicate epoxy nanocomposites. <i>Combustion and Flame</i> , 2012, 159, 3616-3623.	5.2	68
5	Combustion Behaviour of Epoxide Based Nanocomposites with Ammonium and Phosphonium Bentonites. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 2247-2257.	2.2	65
6	Waterborne polyurethane nanocomposites having shape memory effects. <i>Journal of Polymer Science Part A</i> , 2011, 49, 634-641.	2.3	59
7	Vibrational Circular Dichroism Spectroscopy of Solid Polymer Films: Effects of Sample Orientation. <i>Applied Spectroscopy</i> , 2008, 62, 901-905.	2.2	56
8	Preparation, Characterisation and Properties of Nanocomposites Based on Epoxy Resins - An Overview. <i>Macromolecular Symposia</i> , 2005, 221, 127-136.	0.7	55
9	Fast switchable, epoxy based shape-memory polymers with high strength and toughness. <i>Polymer</i> , 2016, 83, 40-49.	3.8	53
10	Fast functionalization of multi-walled carbon nanotubes by an atmospheric pressure plasma jet. <i>Journal of Colloid and Interface Science</i> , 2011, 359, 311-317.	9.4	50
11	Novel cationically polymerized epoxy/poly(ϵ -caprolactone) polymers showing a shape memory effect. <i>Polymer</i> , 2012, 53, 6089-6095.	3.8	50
12	The nature of bonding matters: Benzoxazine based shape memory polymers. <i>Polymer</i> , 2018, 135, 285-294.	3.8	43
13	Synergistic fire retardancy in layered-silicate nanocomposite combined with low-melting phenylsiloxane glass. <i>Journal of Fire Sciences</i> , 2012, 30, 69-87.	2.0	41
14	Cross-linking of cationically polymerised epoxides by nanoparticles. <i>Polymer</i> , 2005, 46, 2029-2039.	3.8	39
15	Multivalent anchored and crosslinked hyperbranched polyglycerol monolayers as antifouling coating for titanium oxide surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 684-692.	5.0	39
16	Determining the structure of $\hat{\pm}$ -phenylethyl isocyanide in chloroform by VCD spectroscopy and DFT calculations – simple case or challenge?. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11635.	2.8	38
17	Structural Examination of Dissolved and Solid Helical Chiral Poly(trityl methacrylate) by VCD Spectroscopy. <i>Macromolecules</i> , 2010, 43, 8373-8378.	4.8	37
18	Enhancement of photocatalytic self-cleaning activity and antimicrobial properties of poly(ethylene) Tj ETQqO 0 0 rgBT /Overlock 10 Tf 50	4.8	36

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19	Current State of Bone Adhesivesâ€”Necessities and Hurdles. <i>Materials</i> , 2019, 12, 3975.	2.9	36
20	Spheroidal Nanoparticles in Epoxideâ€”Based Adhesives. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 363-379.	3.6	33
21	Hydrolytic stability and physical properties of waterborne polyurethane based on hydrolytically stable polyol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 305, 126-131.	4.7	32
22	Partially crystalline polyols lead to morphology changes and improved mechanical properties of cationically polymerized epoxy resins. <i>European Polymer Journal</i> , 2013, 49, 167-176.	5.4	31
23	Observation of resonance electronic and nonâ€”resonanceâ€”enhanced vibrational natural Raman optical activity. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1563-1565.	2.5	30
24	Resorcinolâ€”based benzoxazine with low polymerization temperature. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1693-1699.	2.3	29
25	Phosphorus and Silicon Containing Lowâ€”Melting Organicâ€”Inorganic Glasses Improve Flame Retardancy of Epoxy/Clay Composites. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 952-964.	3.6	28
26	Preparation and properties of elastomers based on a cycloaliphatic diepoxide and poly(tetrahydrofuran). <i>European Polymer Journal</i> , 2003, 39, 1975-1981.	5.4	27
27	Determination of the Flat Band Potential of Nanoparticles in Porous Electrodes by Blocking the Substrateâ€”Electrolyte Contact. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2796-2805.	3.1	27
28	A low melting organic-inorganic glass and its effect on flame retardancy of clay/epoxy composites. <i>Polymer</i> , 2011, 52, 2120-2131.	3.8	26
29	Flammability of layered silicate epoxy nanocomposites combined with lowâ€”melting inorganic ceepree glass. <i>Polymer Engineering and Science</i> , 2012, 52, 507-517.	3.1	24
30	Polyoxopalladate-Loaded Metalâ€”Organic Framework (POP@MOF): Synthesis and Heterogeneous Catalysis. <i>Inorganic Chemistry</i> , 2020, 59, 10512-10521.	4.0	23
31	Noncovalent bonds are key mechanisms for the cohesion of barnacle (<i>Balanus crenatus</i>) adhesive proteins. <i>Marine Biology</i> , 2006, 149, 241-246.	1.5	22
32	In-situ determination of time-dependent alginate-hydrogel formation by mechanical texture analysis. <i>Carbohydrate Polymers</i> , 2019, 205, 287-294.	10.2	21
33	Surface amination of poly(acrylonitrile). <i>Advances in Colloid and Interface Science</i> , 1994, 52, 65-78.	14.7	20
34	Nucleation as a new concept for morphology adjustment of crystalline thermosetting epoxy polymers. <i>Reactive and Functional Polymers</i> , 2013, 73, 1038-1045.	4.1	19
35	Synthesis of polymer/inorganic nanocomposite films using highly porous inorganic scaffolds. <i>Nanoscale</i> , 2012, 4, 2326.	5.6	15
36	Synthesis and Photoinitiated Polymerization of Nematic Liquid-Crystalline Diepoxides. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 180-187.	2.2	13

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37	VCD study of α -methylbenzyl amine derivatives: Detection of the unchanged chiral motif. <i>Chirality</i> , 2010, 22, 754-761.	2.6	13
38	Concomitant cationic polymerization of a hybrid monomer and an epoxy resin. <i>Reactive and Functional Polymers</i> , 2013, 73, 1625-1631.	4.1	13
39	FTIR Imaging of Poly(ϵ -hydroxybutyrate) and Isotactic Poly(propylene oxide) Spherulites. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1627-1631.	2.2	12
40	Mutual Influence Between Adhesion and Molecular Conformation: Molecular Geometry is a Key Issue in Interphase Formation. <i>Journal of Adhesion</i> , 2013, 89, 77-95.	3.0	12
41	Adsorption mechanism and valency of catechol-functionalized hyperbranched polyglycerols. <i>Beilstein Journal of Organic Chemistry</i> , 2015, 11, 828-836.	2.2	12
42	Multivalent non-covalent interactions lead to strongest polymer adhesion. <i>Nanoscale</i> , 2022, 14, 3768-3776.	5.6	12
43	Influence of moisture present during polymerisation on the properties of a photocured epoxy resin. <i>International Journal of Adhesion and Adhesives</i> , 2002, 22, 409-414.	2.9	11
44	The absence of size-dependency in flame retarded composites containing low-melting organic-inorganic glass and clay: Comparison between micro- and nanocomposites. <i>Polymer Degradation and Stability</i> , 2011, 96, 1616-1624.	5.8	11
45	Influence of immobilization protocol on the structure and function of surface bound proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 378-382.	5.0	11
46	Inverse Nanocomposites Based on Indium Tin Oxide for Display Applications: Improved Electrical Conductivity via Polymer Addition. <i>ACS Applied Nano Materials</i> , 2019, 2, 2273-2282.	5.0	11
47	Preparation and Properties of Cholesteric Network Polymers Based on Liquid Crystalline Epoxides. <i>Macromolecular Chemistry and Physics</i> , 2005, 206, 1718-1730.	2.2	10
48	Dynamics in Poly(ϵ -caprolactone) Containing Phase Separated Epoxy Thermosets. <i>Macromolecular Materials and Engineering</i> , 2013, 298, 1275-1281.	3.6	10
49	Adsorption studies of mussel-inspired peptides. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2013, 2, 45-53.	0.9	10
50	Vibrational circular dichroism of α -(trifluoroacetyl)- α -amphor and its interaction with chiral amines. <i>Chirality</i> , 2010, 22, 772-777.	2.6	9
51	Conformational analysis and vibrational circular dichroism study of a chiral metallocene catalyst. <i>Journal of Molecular Structure</i> , 2010, 970, 101-105.	3.6	9
52	Track by Track: The Structure of Single Tracks of Atmospheric Pressure Plasma Polymerized Hexamethyl Disiloxane (HMDSO) Analyzed by Infrared Microscopy. <i>Plasma Processes and Polymers</i> , 2013, 10, 60-68.	3.0	9
53	Bifunctional benzoxazines: Synthesis and polymerization of resorcinol based single isomers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1243-1251.	2.3	9
54	Partially crystalline epoxy networks with superior mechanical and adhesion properties. <i>Journal of Adhesion Science and Technology</i> , 2016, 30, 960-971.	2.6	9

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55	Strong and super tough: Layered ceramic-polymer composites with bio-inspired morphology. <i>Journal of the American Ceramic Society</i> , 2018, 101, 4732-4742.	3.8	9
56	Influence of high-temperature and high-humidity aging on the material and adhesive properties of addition curing silicone adhesives. <i>International Journal of Adhesion and Adhesives</i> , 2021, 111, 102980.	2.9	9
57	Imbibition into Highly Porous Layers of Aggregated Particles. <i>Transport in Porous Media</i> , 2017, 119, 119-141.	2.6	9
58	Interphase Reaction of Isocyanates with Epoxy Resins Containing Functional Groups of Different Reactivity. <i>Macromolecular Materials and Engineering</i> , 2001, 286, 254-259.	3.6	8
59	Influence of addition curing silicone formulation and surface aging of aluminum adherends on bond strength. <i>International Journal of Adhesion and Adhesives</i> , 2019, 95, 102424.	2.9	8
60	Infrared Reflection Spectroscopy of Polycyanurate Thin Films on Solids—State of the Interphase. <i>Journal of Adhesion</i> , 1995, 54, 261-275.	3.0	7
61	Synthesis and photoinduced polymerization of liquid crystalline diepoxides for bonding in the microsystem technique. <i>Polymers for Advanced Technologies</i> , 2000, 11, 739-746.	3.2	7
62	Interaction of Poly(dimethylsiloxane) and octamethylcyclotetrasiloxane with aluminum oxides comprising different acid-base properties. <i>Polymer Degradation and Stability</i> , 2019, 161, 19-29.	5.8	7
63	Synthesis and Application Studies of DOPO-Based Organophosphorous Derivatives to Modify the Thermal Behavior of Polybenzoxazine. <i>Polymers</i> , 2022, 14, 606.	4.5	7
64	Adhesion promoters for gold: Bis-(α -aminoalkyl)-disulfides. <i>International Journal of Adhesion and Adhesives</i> , 1998, 18, 359-364.	2.9	6
65	Modification of Polydimethylsiloxane Coatings by H_2 RF Plasma, Xe_2^* Excimer VUV Radiation, and Low-Energy Electron Beams. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1091-1101.	3.6	6
66	Structural Studies of Aromatic Surfactants for Dispergation of Multiwall Carbon Nanotubes. <i>Soft Materials</i> , 2012, 10, 462-471.	1.7	6
67	Control of reaction mechanisms in cationically polymerized epoxy resins facilitates the adjustment of morphology and mechanical properties. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 2188-2199.	2.1	6
68	Secondary dispersion-based reactive pressure-sensitive adhesives with improved tack. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46315.	2.6	6
69	Pressure sensitive adhesives with post-crosslinking ability based on acrylic dispersions obtained from solvent-borne copolymers. <i>International Journal of Adhesion and Adhesives</i> , 2019, 91, 36-42.	2.9	6
70	Influence of different initiators on the adhesion properties of photopolymerized epoxides on gold and silicon. <i>Journal of Adhesion Science and Technology</i> , 2003, 17, 1561-1572.	2.6	5
71	Highly cross-linked but tough: combination of contradicting properties in cationically polymerized epoxy-polyol adhesives. <i>Journal of Adhesion Science and Technology</i> , 2013, 27, 2531-2541.	2.6	5
72	Crystallinity as New Toughening Concept for Epoxy Resins: Influence of Branching of Integrated Polyester. <i>Journal of the Adhesion Society of Japan</i> , 2015, 51, 286-292.	0.0	5

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73	Structural and tribometric characterization of biomimetically inspired synthetic "insect adhesives". Beilstein Journal of Nanotechnology, 2017, 8, 45-63.	2.8	5
74	Interactions of hydrosiloxane and vinylsiloxane groups with aluminum oxide surfaces. Surface and Interface Analysis, 2019, 51, 1059-1069.	1.8	4
75	Syntheses of dialkenes and diepoxides, and the influence of their structural parameters on liquid crystalline properties. Liquid Crystals, 2005, 32, 921-931.	2.2	3
76	Nicht aus einem Guss. Nachrichten Aus Der Chemie, 2010, 58, 523-525.	0.0	3
77	Covalent integration of differently structured polyester polyols improves the toughness and strength of cationically polymerized, amorphous epoxy networks. Journal of Applied Polymer Science, 2016, 133, .	2.6	3
78	Inline characterization of dispersion formation of a solvent-borne acrylic copolymer by Photon Density Wave spectroscopy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 556, 113-119.	4.7	3
79	Highly porous nanocoatings tailored for inverse nanoparticle-polymer composites. Nano Select, 2021, 2, 271-292.	3.7	3
80	New laboratory cell to evaluate emissions from PUR hotmelts. International Journal of Adhesion and Adhesives, 2006, 26, 537-542.	2.9	2
81	Structural manipulation of colloidal silica. Nanoscale, 2011, 3, 2329.	5.6	2
82	Preparation and pH-Dependent Properties of Hydrogels Based on Acidic Copolymers with PEG Side Chains and β -Cyclodextrin. Macromolecular Chemistry and Physics, 2019, 220, 1900081.	2.2	2
83	An in vitro bone-to-bone adhesion test method using the compression shear test. International Journal of Adhesion and Adhesives, 2021, 111, 102977.	2.9	2
84	Synthesis and Characterization of Polyurethane/-urea Dispersions. Journal of the Adhesion Society of Japan, 2015, 51, 241-242.	0.0	1
85	In situ polymerization monitoring of a diacrylate in an electrically conducting mesoporous nanoparticle scaffold. Journal of Materials Science, 2022, 57, 1755-1777.	3.7	1
86	Preparation of optically active polymer layers by after-glow plasma polymerization. Angewandte Makromolekulare Chemie, 1993, 211, 141-155.	0.2	0
87	The amount makes the poison. Adhesion Adhesives and Sealants, 2014, 11, 10-15.	0.1	0