

Chaobin He

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341
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ext. papers

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ext. citations

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#	Paper	IF	Citations
341	Epoxy Nanocomposites with Highly Exfoliated Clay: Mechanical Properties and Fracture Mechanisms. <i>Macromolecules</i> , 2005 , 38, 788-800	5.5	470
340	Polyethylenimine-grafted multiwalled carbon nanotubes for secure noncovalent immobilization and efficient delivery of DNA. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4782-5	16.4	320
339	Polyimide/POSS nanocomposites: interfacial interaction, thermal properties and mechanical properties. <i>Polymer</i> , 2003 , 44, 4491-4499	3.9	314
338	Graphene-wrapped polyaniline hollow spheres as novel hybrid electrode materials for supercapacitor applications. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3382-91	9.5	288
337	PEI-g-chitosan, a novel gene delivery system with transfection efficiency comparable to polyethylenimine in vitro and after liver administration in vivo. <i>Bioconjugate Chemistry</i> , 2006 , 17, 152-8	6.3	233
336	Lignin-derived fused electrospun carbon fibrous mats as high performance anode materials for lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12275-82	9.5	231
335	Some recent developments of polyhedral oligomeric silsesquioxane (POSS)-based polymeric materials. <i>Journal of Materials Chemistry</i> , 2011 , 21, 2775-2782		212
334	Recent advances in stereocomplexation of enantiomeric PLA-based copolymers and applications. <i>Progress in Polymer Science</i> , 2016 , 62, 22-72	29.6	184
333	Preparation, morphology and thermal/mechanical properties of epoxy/nanoclay composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2006 , 37, 1890-1896	8.4	175
332	Thermal degradation behavior of polyamide 6/clay nanocomposites. <i>Polymer Degradation and Stability</i> , 2003 , 81, 47-56	4.7	171
331	Characterization of permeability and sorption in Matrimid/C60 mixed matrix membranes. <i>Journal of Membrane Science</i> , 2003 , 211, 91-99	9.6	167
330	Morphology, thermal and mechanical behavior of polyamide 6/layered-silicate nanocomposites. <i>Composites Science and Technology</i> , 2003 , 63, 331-337	8.6	156
329	Lignin-derived interconnected hierarchical porous carbon monolith with large areal/volumetric capacitances for supercapacitor. <i>Carbon</i> , 2016 , 100, 151-157	10.4	155
328	Recent Progress in Using Stereocomplexation for Enhancement of Thermal and Mechanical Property of Polylactide. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 5370-5391	8.3	154
327	Synthesis and Stereocomplex Crystallization of Poly(lactide)/Graphene Oxide Nanocomposites. <i>ACS Macro Letters</i> , 2012 , 1, 709-713	6.6	145
326	Nitrogen-doped graphene hollow nanospheres as novel electrode materials for supercapacitor applications. <i>Journal of Power Sources</i> , 2013 , 243, 973-981	8.9	140
325	Morphology and fracture behavior of intercalated epoxy/clay nanocomposites. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 1236-1244	2.9	139

324	Blue Photoluminescence from Hyperbranched Poly(amino ester)s. <i>Macromolecules</i> , 2005 , 38, 9906-9909	5.5	138
323	The effect of salt and pH on the phase-transition behaviors of temperature-sensitive copolymers based on N-isopropylacrylamide. <i>Biomaterials</i> , 2004 , 25, 5659-66	15.6	134
322	Synthesis of PtRu nanoparticles from the hydrosilylation reaction and application as catalyst for direct methanol fuel cell. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16644-9	3.4	133
321	Covalent bonded polymer-graphene nanocomposites. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 4262-4267	5.7	132
320	Toward Negative Poisson Ratio Polymers through Molecular Design. <i>Macromolecules</i> , 1998 , 31, 3145-3147	4.5	130
319	Preparation of highly exfoliated epoxy/clay nanocomposites by "slurry compounding": process and mechanisms. <i>Langmuir</i> , 2005 , 21, 3613-8	4	125
318	Trimeric supramolecular liquid crystals induced by halogen bonds. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3540		121
317	Recent advances in the development of biodegradable PHB-based toughening materials: Approaches, advantages and applications. <i>Materials Science and Engineering C</i> , 2018 , 92, 1092-1116	8.3	121
316	Biodegradable and renewable poly(lactide)-lignin composites: synthesis, interface and toughening mechanism. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 3699-3709	13	119
315	Electrical conductivity of polyaniline-dodecylbenzene sulphonic acid complex: thermal degradation and its mechanism. <i>Synthetic Metals</i> , 2002 , 128, 167-178	3.6	110
314	Cholesteryl-grafted functional amphiphilic poly(N-isopropylacrylamide-co-N-hydroxymethylacrylamide): synthesis, temperature-sensitivity, self-assembly and encapsulation of a hydrophobic agent. <i>Biomaterials</i> , 2004 , 25, 2619-28	15.6	108
313	Polyhedral oligomeric silsesquioxanes (POSSs): an important building block for organic optoelectronic materials. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5283-5298	7.1	106
312	Morphology, thermal and mechanical properties of nylon 12/organoclay nanocomposites prepared by melt compounding. <i>Polymer International</i> , 2005 , 54, 456-464	3.3	105
311	Superhydrophobic fluorinated POSS/PVDF-HFP nanocomposite coating on glass by electrospinning. <i>Journal of Materials Chemistry</i> , 2012 , 22, 18479		102
310	Biodegradable Core-Shell Rubber Nanoparticles and Their Toughening of Poly(lactides). <i>Macromolecules</i> , 2013 , 46, 9625-9633	5.5	100
309	Synthesis, morphology, and properties of hydroxyl terminated-POSS/polyimide low-k nanocomposite films. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5887-5896	2.5	99
308	Highly Biodegradable and Tough Polylactic Acid-Celulose Nanocrystal Composite. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 3929-3937	8.3	95
307	Poly(ester urethane)s consisting of poly[(R)-3-hydroxybutyrate] and poly(ethylene glycol) as candidate biomaterials: characterization and mechanical property study. <i>Biomacromolecules</i> , 2005 , 6, 2740-7	6.9	95

306	Star-shaped POSS-polycaprolactone polyurethanes and their shape memory performance. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4827		93
305	Effects of Chemistries of Trifunctional Amines on Mechanisms of Michael Addition Polymerizations with Diacrylates. <i>Macromolecules</i> , 2004 , 37, 6763-6770	5.5	90
304	Preparation and thermomechanical properties of epoxy resins modified by octafunctional cubic silsesquioxane epoxides. <i>Journal of Polymer Science Part A</i> , 2004 , 42, 3490-3503	2.5	85
303	Fully biodegradable Poly(lactic acid)/Starch blends: A review of toughening strategies. <i>International Journal of Biological Macromolecules</i> , 2018 , 109, 99-113	7.9	85
302	Facile Layer-by-Layer Self-Assembly toward Enantiomeric Poly(lactide) Stereocomplex Coated Magnetite Nanocarrier for Highly Tunable Drug Deliveries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 1842-53	9.5	84
301	Synthesis and Self-Assembly of Difunctional Halogen-Bonding Molecules: A New Family of Supramolecular Liquid-Crystalline Polymers. <i>Macromolecules</i> , 2005 , 38, 3554-3557	5.5	84
300	Highly Efficient Blue-Light-Emitting Glass-Forming Molecules Based on Tetraarylmethane/Silane and Fluorene: Synthesis and Thermal, Optical, and Electrochemical Properties. <i>Chemistry of Materials</i> , 2005 , 17, 434-441	9.6	84
299	Thermal degradation of electrical conductivity of polyacrylic acid doped polyaniline: effect of molecular weight of the dopants. <i>Synthetic Metals</i> , 2003 , 138, 429-440	3.6	84
298	Micelle formation and gelation of (PEG-P(MA-POSS)) amphiphilic block copolymers via associative hydrophobic effects. <i>Langmuir</i> , 2010 , 26, 11763-73	4	83
297	Highly Sensitive and Fast Response Colorimetric Humidity Sensors Based on Graphene Oxides Film. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19882-6	9.5	82
296	Thermomechanical properties of polyimide-epoxy nanocomposites from cubic silsesquioxane epoxides. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2858		82
295	Rheological and mechanical properties of epoxy/clay nanocomposites with enhanced tensile and fracture toughnesses. <i>Polymer</i> , 2015 , 58, 43-52	3.9	81
294	Highly efficient luminescent organic clusters with quantum dot-like properties. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7792-3	16.4	80
293	Organic/inorganic nanocomposites from cubic silsesquioxane epoxides: direct characterization of interphase, and thermomechanical properties. <i>Polymer</i> , 2005 , 46, 7018-7027	3.9	80
292	Tailoring Micelle Formation and Gelation in (PEG-P(MA-POSS)) Amphiphilic Hybrid Block Copolymers. <i>Macromolecules</i> , 2011 , 44, 622-631	5.5	78
291	Synthesis, Electronic, and Emission Spectroscopy, and Electrochromic Characterization of Azulene/fluorene Conjugated Oligomers and Polymers. <i>Macromolecules</i> , 2009 , 42, 5534-5544	5.5	78
290	Hyperbranched poly(amino ester)s with different terminal amine groups for DNA delivery. <i>Biomacromolecules</i> , 2006 , 7, 1879-83	6.9	76
289	Efficient gene delivery with paclitaxel-loaded DNA-hybrid polyplexes based on cationic polyhedral oligomeric silsesquioxanes. <i>Journal of Materials Chemistry</i> , 2010 , 20, 10634		74

288	Hyperbranched Blue-Light-Emitting Alternating Copolymers of Tetrabromoarylmethane/Silane and 9,9-Dihexylfluorene-2,7-diboronic Acid. <i>Macromolecules</i> , 2004 , 37, 5965-5970	5.5	74
287	Morphology, tensile and fracture characteristics of epoxy-alumina nanocomposites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5670-5676	5.3	73
286	Preparation and mechanical properties of exfoliated CoAl layered double hydroxide (LDH)/polyamide 6 nanocomposites by in situ polymerization. <i>Composites Science and Technology</i> , 2009 , 69, 991-996	8.6	72
285	Dynamic and static light scattering studies on self-aggregation behavior of biodegradable amphiphilic poly(ethylene oxide)-poly[(R)-3-hydroxybutyrate]-poly(ethylene oxide) triblock copolymers in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5920-6	3.4	71
284	Toward molecular auxetics: Main chain liquid crystalline polymers consisting of laterally attached para-quaterphenyls. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 576-584	1.3	69
283	High Modulus, Strength, and Toughness Polyurethane Elastomer Based on Unmodified Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7942-7949	8.3	68
282	Triple-shape properties of star-shaped POSS-polycaprolactone polyurethane networks. <i>Soft Matter</i> , 2012 , 8, 965-972	3.6	68
281	Nanocomposites for bone tissue regeneration. <i>Nanomedicine</i> , 2013 , 8, 639-53	5.6	68
280	A DFT study of the amination of fullerenes and carbon nanotubes: reactivity and curvature. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13755-60	3.4	68
279	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13787-13795	9.5	67
278	2A2+ BBB Approach to Hyperbranched Poly(amino ester)s. <i>Macromolecules</i> , 2005 , 38, 5519-5525	5.5	67
277	Self-assembly of brush-like poly[poly(ethylene glycol) methyl ether methacrylate] synthesized via aqueous atom transfer radical polymerization. <i>Langmuir</i> , 2008 , 24, 13279-86	4	66
276	A processing-induced clay dispersion and its effect on the structure and properties of polyamide 6. <i>Polymer International</i> , 2004 , 53, 392-399	3.3	65
275	Nanoindentation and Morphological Studies of Epoxy Nanocomposites. <i>Macromolecular Materials and Engineering</i> , 2006 , 291, 1358-1366	3.9	64
274	Effective moduli of nanoparticle reinforced composites considering interphase effect by extended double-inclusion model theory and explicit expressions. <i>International Journal of Engineering Science</i> , 2013 , 73, 33-55	5.7	63
273	Three-Dimensional Structure of CeO ₂ Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3544-3553	3.8	63
272	Novel poly(amino ester)s obtained from Michael addition polymerizations of trifunctional amine monomers with diacrylates: safe and efficient DNA carriers. <i>Chemical Communications</i> , 2003 , 2630-1	5.8	62
271	High conductive and mechanical robust carbon nanotubes/waterborne polyurethane composite films for efficient electromagnetic interference shielding. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019 , 121, 411-417	8.4	61

270	Morphology and thermal degradation behavior of highly exfoliated CoAl-layered double hydroxide/polycaprolactone nanocomposites prepared by simple solution intercalation. <i>Thermochimica Acta</i> , 2010 , 502, 1-7	2.9	60
269	Synthesis of Poly(glycidyl methacrylate)-block-Poly(pentafluorostyrene) by RAFT: Precursor to Novel Amphiphilic Poly(glycerol methacrylate)-block-Poly(pentafluorostyrene). <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1902-1907	4.8	60
268	Morphology, thermal, and rheological behavior of nylon 11/multi-walled carbon nanotube nanocomposites prepared by melt compounding. <i>Polymer Engineering and Science</i> , 2009 , 49, 1063-1068	2.3	59
267	Microdeformation and Fracture Mechanisms in Polyamide-6/Organoclay Nanocomposites. <i>Macromolecules</i> , 2008 , 41, 193-202	5.5	59
266	Crystallization and melting behavior of polyester/clay nanocomposites. <i>Polymer International</i> , 2004 , 53, 1282-1289	3.3	59
265	Applications of environmental scanning electron microscopy to colloidal aggregation and film formation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2000 , 174, 37-53	5.1	59
264	Improving the fracture toughness of epoxy with nanosilica-rubber core-shell nanoparticles. <i>Composites Science and Technology</i> , 2016 , 125, 132-140	8.6	58
263	Interfacial control and carrier tuning of carbon nanotube/polyaniline composites for high thermoelectric performance. <i>Carbon</i> , 2018 , 136, 292-298	10.4	57
262	Design of polyhedral oligomeric silsesquioxane (POSS) based thermo-responsive amphiphilic hybrid copolymers for thermally denatured protein protection applications. <i>Polymer Chemistry</i> , 2014 , 5, 6740-6753	4.9	57
261	Biodegradable silica rubber core-shell nanoparticles and their stereocomplex for efficient PLA toughening. <i>Composites Science and Technology</i> , 2018 , 159, 11-17	8.6	56
260	Core-corona structure of cubic silsesquioxane-poly(ethylene oxide) in aqueous solution: fluorescence, light scattering, and TEM studies. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 9455-62	3.4	56
259	Electrically Conductive Epoxy/Clay/Vapor Grown Carbon Fiber Hybrids. <i>Macromolecules</i> , 2006 , 39, 908-915	1.5	56
258	Polyhedral oligomeric silsesquioxanes tethered with perfluoroalkylthioether corner groups: Facile synthesis and enhancement of hydrophobicity of their polymer blends. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4740		55
257	Azulene-containing organic chromophores with tunable near-IR absorption in the range of 0.6 to 1.7 μm . <i>Journal of Materials Chemistry</i> , 2012 , 22, 10448		54
256	Synthesis and self-assembly of brush-type poly[poly(ethylene glycol)methyl ether methacrylate]-block-poly(pentafluorostyrene) amphiphilic diblock copolymers in aqueous solution. <i>Langmuir</i> , 2010 , 26, 2361-8	4	54
255	Evaluation of hyperbranched poly(amino ester)s of amine constitutions similar to polyethylenimine for DNA delivery. <i>Biomacromolecules</i> , 2005 , 6, 3166-73	6.9	54
254	Effects of clay on polymorphism of polypropylene in polypropylene/clay nanocomposites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1810-1816	2.6	54
253	Cubic silsesquioxane/polyimide nanocomposites with improved thermomechanical and dielectric properties. <i>Acta Materialia</i> , 2005 , 53, 2395-2404	8.4	54

252	Phase PVDF-hfp induced by mesoporous SiO ₂ nanorods: synthesis and formation mechanism. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3708-3713	7.1	53
251	Synthesis, stereocomplex crystallization, morphology and mechanical property of poly(lactide)/carbon nanotube nanocomposites. <i>RSC Advances</i> , 2013 , 3, 2219	3.7	53
250	Simultaneous enhancement of electrical conductivity and seebeck coefficient in organic thermoelectric SWNT/PEDOT:PSS nanocomposites. <i>Carbon</i> , 2019 , 149, 25-32	10.4	52
249	Lightweight flexible carbon nanotube/polyaniline films with outstanding EMI shielding properties. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 8694-8698	7.1	52
248	Synthesis and Self-Assembly of Donor-Spacer-Acceptor Molecules. Liquid Crystals Formed by Single-Component Complexes via Intermolecular Hydrogen-Bonding Interaction. <i>Macromolecules</i> , 2005 , 38, 1684-1690	5.5	52
247	Enhanced ordering in gold nanoparticles self-assembly through excess free ligands. <i>Langmuir</i> , 2011 , 27, 3355-60	4	51
246	Synthesis and self-assembly of poly(styrene)-b-poly(N-vinylpyrrolidone) amphiphilic diblock copolymers made via a combined ATRP and MADIX approach. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5604-5615	2.5	51
245	Conversion of biomass lignin to high-value polyurethane: A review. <i>Journal of Bioresources and Bioproducts</i> , 2020 , 5, 163-179	18.7	51
244	Poly(ethylene glycol) conjugated poly(lactide)-based polyelectrolytes: synthesis and formation of stable self-assemblies induced by stereocomplexation. <i>Langmuir</i> , 2015 , 31, 2321-33	4	50
243	Novel glassy tetra(N-alkyl-3-bromocarbazole-6-yl)silanes as building blocks for efficient and nonaggregating blue-light-emitting tetrahedral Materials. <i>Organic Letters</i> , 2005 , 7, 2829-32	6.2	50
242	Improving hydrophilicity, mechanical properties and biocompatibility of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate] through blending with poly[(R)-3-hydroxybutyrate]-alt-poly(ethylene oxide). <i>Acta Biomaterialia</i> , 2009 , 5, 2002-12	10.8	49
241	Electrochemical doping of three-dimensional graphene networks used as efficient electrocatalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 9394-8	7.7	48
240	A DFT study on poly(lactic acid) polymorphs. <i>Polymer</i> , 2010 , 51, 2779-2785	3.9	48
239	Hyperbranched Blue to Red Light-Emitting Polymers with Tetraarylsilyl Cores: Synthesis, Optical and Electroluminescence Properties, and ab Initio Modeling Studies. <i>Macromolecules</i> , 2005 , 38, 4157-4168	5.5	47
238	Novel linear-dendritic-like amphiphilic copolymers: synthesis and self-assembly characteristics. <i>Polymer Chemistry</i> , 2014 , 5, 4069-4075	4.9	46
237	Stable dispersions of hybrid nanoparticles induced by stereocomplexation between enantiomeric poly(lactide) star polymers. <i>Langmuir</i> , 2011 , 27, 10538-47	4	46
236	Permeability of polyimides derived from non-coplanar diamines and 4,4'-(hexafluoroisopropylidene)diphthalic anhydride. <i>Polymer</i> , 2003 , 44, 4715-4721	3.9	46
235	Synthesis, micelle formation, and bulk properties of poly(ethylene glycol)-b-poly(pentafluorostyrene)-g-polyhedral oligomeric silsesquioxane amphiphilic hybrid copolymers. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 152-163	2.5	45

234	Thermal- and pH-Responsive Degradable Polymers. <i>Macromolecules</i> , 2008 , 41, 18-20	5.5	45
233	Simultaneous enhancement of strength and toughness of epoxy using POSS-Rubber core-shell nanoparticles. <i>Composites Science and Technology</i> , 2015 , 118, 63-71	8.6	44
232	Nano-hybrid luminescent dot: synthesis, characterization and optical properties. <i>Journal of Materials Chemistry</i> , 2006 , 16, 829-836		44
231	Tailoring the surface chemistry and morphology of glass fiber membranes for robust oil/water separation using poly(dimethylsiloxanes) as hydrophobic molecular binders. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 607-615	13	44
230	Biodegradable PHB-Rubber Copolymer Toughened PLA Green Composites with Ultrahigh Extensibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15517-15527	8.3	44
229	Octa(maleimido phenyl) silsesquioxane copolymers. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 2483-2494	4	42
228	Hierarchical porous carbon monolith derived from lignin for high areal capacitance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2020 , 297, 109960	5.3	42
227	Polyhedral Oligomeric Silsesquioxanes (POSS)-Based Hybrid Soft Gels: Molecular Design, Material Advantages, and Emerging Applications 2020 , 2, 296-316		41
226	Effect of molecular orientation on mechanical property of single electrospun fiber of poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate]. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 13179-13184	8.5	41
225	Synthesis and characterization of organic/inorganic hybrid star polymers of 2,2,3,4,4,4-hexafluorobutyl methacrylate and octa(aminophenyl)silsesquioxane nano-cage made via atom transfer radical polymerization. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 7287-7298	2.5	41
224	High-performance thermoelectric materials based on ternary TiO/CNT/PANI composites. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9411-9418	3.6	40
223	Tuning self-assembly of hybrid PLA-P(MA-POSS) block copolymers in solution via stereocomplexation. <i>Polymer Chemistry</i> , 2013 , 4, 1250-1259	4.9	40
222	Time-dependent polymerization kinetic study and the properties of hybrid polymers with functional silsesquioxanes. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 9119-27	3.4	40
221	Crystallization behavior of star-shaped poly(ethylene oxide) with cubic silsesquioxane (CSSQ) core. <i>Polymer</i> , 2006 , 47, 5035-5043	3.9	40
220	In-Situ Deformation Studies of Rubber Toughened Poly(methyl methacrylate): Influence of Rubber Particle Concentration and Rubber Cross-Linking Density. <i>Macromolecules</i> , 1998 , 31, 158-164	5.5	39
219	Lignin Epoxy Composites: Preparation, Morphology, and Mechanical Properties. <i>Macromolecular Materials and Engineering</i> , 2016 , 301, 328-336	3.9	38
218	Azulene-based conjugated polymers with tuneable near-IR absorption up to 2.5 μm . <i>Polymer Chemistry</i> , 2014 , 5, 2980-2989	4.9	38
217	Octafunctional cubic silsesquioxane (CSSQ)/poly(methyl methacrylate) nanocomposites: Synthesis by atom transfer radical polymerization at mild conditions and the influence of CSSQ on nanocomposites. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 766-776	2.5	38

216	A Comparative Study on Luminescent Copolymers of Fluorene and Carbazole with Conjugated or π - π Interrupted Structures: Steric Effects. <i>Macromolecules</i> , 2006 , 39, 1397-1402	5.5	38
215	Porous polyaniline/carbon nanotube composite electrode for supercapacitors with outstanding rate capability and cyclic stability. <i>Composites Part B: Engineering</i> , 2019 , 165, 671-678	10	38
214	Barnacle repellent nanostructured surfaces formed by the self-assembly of amphiphilic block copolymers. <i>Polymer Chemistry</i> , 2010 , 1, 276-279	4.9	37
213	Star-like polyurethane hybrids with functional cubic silsesquioxanes: Preparation, morphology, and thermomechanical properties. <i>Journal of Polymer Science Part A</i> , 2009 , 47, 4602-4616	2.5	37
212	Transmission Electron Microscopy Observations on Lamellar Melting of Cold-Crystallized Isotactic Polystyrene. <i>Macromolecules</i> , 2001 , 34, 4305-4307	5.5	37
211	Photopolymer resins for luminescent three-dimensional printing. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 44988	2.9	36
210	Effect of interphase and strain-rate on the tensile properties of polyamide 6 reinforced with functionalized silica nanoparticles. <i>Composites Science and Technology</i> , 2013 , 75, 62-69	8.6	36
209	Organic/Inorganic hybrid liquid crystals derived from octameric silsesquioxanes. Effect of the peripheral groups in mesogens on the formation of liquid crystals. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5248		36
208	Thermally Stable Blue-Light-Emitting Hybrid Organic/Inorganic Polymers Derived from Cyclotriphosphazene. <i>Macromolecules</i> , 2008 , 41, 9624-9636	5.5	36
207	Preparation, microstructure and thermal mechanical properties of epoxy/crude clay nanocomposites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2007 , 38, 192-197	8.4	36
206	Multi-walled carbon nanotube/polyimide composite film fabricated through electrophoretic deposition. <i>Polymer</i> , 2010 , 51, 2155-2160	3.9	35
205	Superhydrophobic and slippery liquid-infused porous surfaces formed by the self-assembly of a hybrid ABC triblock copolymer and their antifouling performance. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 440-448	7.3	35
204	Structure of a self-assembled hydrogen-bonded π - π main chain liquid crystalline polymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1998 , 36, 1617-1624	2.6	34
203	Hydrothermal effects on the thermomechanical properties of high performance epoxy/clay nanocomposites. <i>Polymer Engineering and Science</i> , 2006 , 46, 215-221	2.3	34
202	Hybrid Starlike Block Copolymer POSS-(PDMAEMA-b-PNIPAm) ₈ : Thermal Gelation and Its Blends with Poly(vinyl alcohol). <i>Macromolecules</i> , 2016 , 49, 4236-4244	5.5	33
201	Rubber-like shape memory polymeric materials with repeatable thermal-assisted healing function. <i>Smart Materials and Structures</i> , 2012 , 21, 115010	3.4	33
200	Designing poly[(R)-3-hydroxybutyrate]-based polyurethane block copolymers for electrospun nanofiber scaffolds with improved mechanical properties and enhanced mineralization capability. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 7489-98	3.4	33
199	Photoactive perylenediimide-bridged silsesquioxane functionalized periodic mesoporous organosilica thin films (PMO-SBA15): synthesis, self-assembly, and photoluminescent and enhanced mechanical properties. <i>Langmuir</i> , 2009 , 25, 4743-50	4	32

198	Synthesis and characterisation of main-chain hydrogen-bonded supramolecular liquid crystalline complexes formed by azo-containing compounds. <i>Liquid Crystals</i> , 2008 , 35, 241-251	2.3	32
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