Qiang Fu

List of Publications by Citations

512 papers	18,398 citations	64 h-index	114 g-index
524 ext. papers	21,433 ext. citations	6 avg, IF	7.12 L-index

#	Paper	IF	Citations
512	Bioactive glass in tissue engineering. *Acta Biomaterialia*, **2011**, 7, 2355-73	10.8	1164
511	Star Polymers. *Chemical Reviews*, **2016**, 116, 6743-836	68.1	494
510	Progress on the morphological control of conductive network in conductive polymer composites and the use as electroactive multifunctional materials. *Progress in Polymer Science*, **2014**, 39, 627-655	29.6	460
509	Bioactive glass scaffolds for bone tissue engineering: state of the art and future perspectives. *Materials Science and Engineering C*, **2011**, 31, 1245-1256	8.3	451
508	Efficient electromagnetic interference shielding of lightweight graphene/polystyrene composite. *Journal of Materials Chemistry*, **2012**, 22, 18772		423
507	Compatibilization of Immiscible Poly(propylene)/Polystyrene Blends Using Clay. *Macromolecular Rapid Communications*, **2003**, 24, 231-235	4.8	279
506	Direct ink writing of highly porous and strong glass scaffolds for load-bearing bone defects repair and regeneration. *Acta Biomaterialia*, **2011**, 7, 3547-54	10.8	252
505	Silicate, borosilicate, and borate bioactive glass scaffolds with controllable degradation rate for bone tissue engineering applications. I. Preparation and in vitro degradation. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 164-71	5.4	250
504	New Understanding in Tuning Toughness of β-Polypropylene: The Role of β-Nucleated Crystalline Morphology. *Macromolecules*, **2009**, 42, 9325-9331	5.5	241
503	Water-induced shape memory effect of graphene oxide reinforced polyvinyl alcohol nanocomposites. *Journal of Materials Chemistry A*, **2014**, 2, 2240-2249	13	235
502	Mechanical and in vitro performance of 13-93 bioactive glass scaffolds prepared by a polymer foam replication technique. *Acta Biomaterialia*, **2008**, 4, 1854-64	10.8	228
501	In Vitro Bioactive Characteristics of Borate-Based Glasses with Controllable Degradation Behavior. *Journal of the American Ceramic Society*, **2007**, 90, 303-306	3.8	213
500	Visible Light Mediated Controlled Radical Polymerization in the Absence of Exogenous Radical Sources or Catalysts. *Macromolecules*, **2015**, 48, 3864-3872	5.5	211
499	Beyond Traditional RAFT: Alternative Activation of Thiocarbonylthio Compounds for Controlled Polymerization. *Advanced Science*, **2016**, 3, 1500394	13.6	189
498	Ultrathin flexible reduced graphene oxide/cellulose nanofiber composite films with strongly anisotropic thermal conductivity and efficient electromagnetic interference shielding. *Journal of Materials Chemistry C*, **2017**, 5, 3748-3756	7.1	188
497	Bioinspired Strong and Highly Porous Glass Scaffolds. *Advanced Functional Materials*, **2011**, 21, 1058-1063	5.6	186
496	Control of Crystal Morphology in Poly(l-lactide) by Adding Nucleating Agent. *Macromolecules*, **2011**, 44, 1233-1237	5.5	171

495	Achieving a Collapsible, Strong, and Highly Thermally Conductive Film Based on Oriented Functionalized Boron Nitride Nanosheets and Cellulose Nanofiber. *ACS Applied Materials & Interfaces*, **2017**, 9, 30035-30045	9.5	167
494	Toward Strong and Tough Glass and Ceramic Scaffolds for Bone Repair. *Advanced Functional Materials*, **2013**, 23, 5461-5476	15.6	143
493	Direct Formation of Nanohybrid Shish-Kebab in the Injection Molded Bar of Polyethylene/Multiwalled Carbon Nanotubes Composite. *Macromolecules*, **2009**, 42, 7016-7023	5.5	143
492	Silicate, borosilicate, and borate bioactive glass scaffolds with controllable degradation rate for bone tissue engineering applications. II. In vitro and in vivo biological evaluation. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 172-9	5.4	143
491	One-Pot Synthesis of ABC Type Triblock Copolymers via a Combination of Click Chemistry and Atom Transfer Nitroxide Radical Coupling Chemistry. *Macromolecules*, **2008**, 41, 4127-4135	5.5	137
490	Synthesis and Characterization of pH-Sensitive Biodegradable Polyurethane for Potential Drug Delivery Applications. *Macromolecules*, **2011**, 44, 857-864	5.5	135
489	The resistivity–strain behavior of conductive polymer composites: stability and sensitivity. *Journal of Materials Chemistry A*, **2014**, 2, 17085-17098	13	132
488	Freeze casting of porous hydroxyapatite scaffolds. I. Processing and general microstructure. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 86, 125-35	3.5	132
487	In vitro evaluation of borate-based bioactive glass scaffolds prepared by a polymer foam replication method. *Materials Science and Engineering C*, **2009**, 29, 2275-2281	8.3	131
486	Preparation of polyester/reduced graphene oxide composites via in situ melt polycondensation and simultaneous thermo-reduction of graphene oxide. *Journal of Materials Chemistry*, **2011**, 21, 8612		128
485	Cyclodextrin-based supramolecular assemblies and hydrogels: recent advances and future perspectives. *Macromolecular Rapid Communications*, **2014**, 35, 1166-84	4.8	126
484	Low-dimensional carbonaceous nanofiller induced polymer crystallization. *Progress in Polymer Science*, **2014**, 39, 555-593	29.6	124
483	Fabrication of a transparent superamphiphobic coating with improved stability. *Soft Matter*, **2011**, 7, 6435	3.6	119
482	Synthesis of Amphiphilic Macrocyclic Graft Copolymer Consisting of a Poly(ethylene oxide) Ring and Multi-Polystyrene Lateral Chains. *Macromolecules*, **2006**, 39, 5190-5193	5.5	118
481	Self-assembly of biodegradable polyurethanes for controlled delivery applications. *Soft Matter*, **2012**, 8, 5414	3.6	116
480	Design and Preparation of a Unique Segregated Double Network with Excellent Thermal Conductive Property. *ACS Applied Materials & Interfaces*, **2017**, 9, 7637-7647	9.5	115
479	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO2 capture. *Journal of Membrane Science*, **2019**, 572, 38-60	9.6	115
478	MOF-Mediated Destruction of Cancer Using the Cell's Own Hydrogen Peroxide. *ACS Applied Materials & Interfaces*, **2017**, 9, 33599-33608	9.5	107

477	Preparation and properties of polypropylene/montmorillonite layered nanocomposites. *Polymer International*, **2000**, 49, 1561-1564	3.3	107
476	A New Strategy for Preparation of Graft Copolymers via Graft onto by Atom Transfer Nitroxide Radical Coupling Chemistry: Preparation of Poly(4-glycidyloxy-2,2,6,6-tetramethylpiperidine-1-oxyl-co-ethylene oxide)-graft-polystyrene and Poly(tert-butyl acrylate). *Macromolecules*, **2008**, 41, 2381-2387	5.5	103
475	Highly Thermoconductive, Thermostable, and Super-Flexible Film by Engineering 1D Rigid Rod-Like Aramid Nanofiber/2D Boron Nitride Nanosheets. *Advanced Materials*, **2020**, 32, e1906939	24	101
474	Sono-RAFT Polymerization in Aqueous Medium. *Angewandte Chemie - International Edition*, **2017**, 56, 12302-12306	16.4	100
473	Bone regeneration in strong porous bioactive glass (13-93) scaffolds with an oriented microstructure implanted in rat calvarial defects. *Acta Biomaterialia*, **2013**, 9, 4889-98	10.8	99
472	Growth and differentiation of osteoblastic cells on 13-93 bioactive glass fibers and scaffolds. *Acta Biomaterialia*, **2008**, 4, 387-96	10.8	98
471	Continuous assembly of a polymer on a metal organic framework (CAP on MOF): a 30 nm thick polymeric gas separation membrane. *Energy and Environmental Science*, **2018**, 11, 544-550	35.4	93
470	Recent Advances in Processing of Stereocomplex-Type Polylactide. *Macromolecular Rapid Communications*, **2017**, 38, 1700454	4.8	91
469	Largely enhanced energy storage density of poly(vinylidene fluoride) nanocomposites based on surface hydroxylation of boron nitride nanosheets. *Journal of Materials Chemistry A*, **2018**, 6, 7573-7584	13	90
468	Preparation and rapid degradation of nontoxic biodegradable polyurethanes based on poly(lactic acid)-poly(ethylene glycol)-poly(lactic acid) and L-lysine diisocyanate. *Polymer Chemistry*, **2011**, 2, 601-607	4.9	88
467	Robust and Mechanically and Electrically Self-Healing Hydrogel for Efficient Electromagnetic Interference Shielding. *ACS Applied Materials & Interfaces*, **2018**, 10, 8245-8257	9.5	85
466	Preparation and bioactive characteristics of a porous 13-93 glass, and fabrication into the articulating surface of a proximal tibia. *Journal of Biomedical Materials Research - Part A*, **2007**, 82, 222-9	5.4	85
465	Development of a Robust PET-RAFT Polymerization Using Graphitic Carbon Nitride (g-C3N4). *Macromolecules*, **2017**, 50, 7509-7516	5.5	84
464	Oriented bioactive glass (13-93) scaffolds with controllable pore size by unidirectional freezing of camphene-based suspensions: Microstructure and mechanical response. *Acta Biomaterialia*, **2011**, 7, 406-16	10.8	84
463	Controlled Formation of Star Polymer Nanoparticles via Visible Light Photopolymerization. *ACS Macro Letters*, **2015**, 4, 1012-1016	6.6	82
462	One-pot preparation of 3-miktoarm star terpolymers via click chemistry and atom transfer nitroxide radical coupling reaction. *Journal of Polymer Science Part A*, **2009**, 47, 986-990	2.5	78
461	A novel cross-linked nano-coating for carbon dioxide capture. *Energy and Environmental Science*, **2016**, 9, 434-440	35.4	75
460	The optimization of thermoelectric properties in a PEDOT:PSS thin film through post-treatment. *RSC Advances*, **2015**, 5, 1910-1917	3.7	73

459	Freeze casting of porous hydroxyapatite scaffolds. II. Sintering, microstructure, and mechanical behavior. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2008**, 86, 514-22	3.5	73
458	Size-specified graphene oxide sheets: ultrasonication assisted preparation and characterization. *Journal of Materials Science*, **2014**, 49, 1785-1793	4.3	72
457	Preparation of a thermally conductive biodegradable cellulose nanofiber/hydroxylated boron nitride nanosheet film: the critical role of edge-hydroxylation. *Journal of Materials Chemistry A*, **2018**, 6, 11863-11873	13	71
456	Two-dimensional nanosheet-based gas separation membranes. *Journal of Materials Chemistry A*, **2018**, 6, 23169-23196	13	70
455	Microfibrillated cellulose-reinforced bio-based poly(propylene carbonate) with dual shape memory and self-healing properties. *Journal of Materials Chemistry A*, **2014**, 2, 20393-20401	13	69
454	On the structural, mechanical, and biodegradation properties of HA/β-TCP robocast scaffolds. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2013**, 101, 1233-42	3.5	69
453	Ultrathin Metal-Organic Framework Nanosheets as a Gutter Layer for Flexible Composite Gas Separation Membranes. *ACS Nano*, **2018**, 12, 11591-11599	16.7	68
452	Towards tunable resistivity–strain behavior through construction of oriented and selectively distributed conductive networks in conductive polymer composites. *Journal of Materials Chemistry A*, **2014**, 2, 10048-10058	13	67
451	Single-Electron-Transfer Nitroxide-Radical-Coupling Reaction at Ambient Temperature: Application in the Synthesis of Block Copolymers. *Macromolecules*, **2009**, 42, 4381-4383	5.5	67
450	Preparation of high performance conductive polymer fibres from double percolated structure. *Journal of Materials Chemistry*, **2011**, 21, 6401		65
449	Freeze-cast hydroxyapatite scaffolds for bone tissue engineering applications. *Biomedical Materials (Bristol)*, **2008**, 3, 025005	3.5	65
448	Dependence of mechanical properties on β-form content and crystalline morphology for β-nucleated isotactic polypropylene. *Polymers for Advanced Technologies*, **2011**, 22, 2044-2054	3.2	64
447	Preparation and in vitro evaluation of bioactive glass (13-93) scaffolds with oriented microstructures for repair and regeneration of load-bearing bones. *Journal of Biomedical Materials Research - Part A*, **2010**, 93, 1380-90	5.4	64
446	CO2 separation using surface-functionalized SiO2 nanoparticles incorporated ultra-thin film composite mixed matrix membranes for post-combustion carbon capture. *Journal of Membrane Science*, **2016**, 515, 54-62	9.6	63
445	Phase change material with anisotropically high thermal conductivity and excellent shape stability due to its robust cellulose/BNNSs skeleton. *Journal of Materials Chemistry A*, **2019**, 7, 19364-19373	13	62
444	A Multidirectionally Thermoconductive Phase Change Material Enables High and Durable Electricity Real-Environment Solar-Thermal-Electric Conversion. *ACS Nano*, **2020**, 14, 15738-15747	16.7	61
443	Fabrication of Highly Stretchable, Washable, Wearable, Water-Repellent Strain Sensors with Multi-Stimuli Sensing Ability. *ACS Applied Materials & Interfaces*, **2018**, 10, 31655-31663	9.5	61
442	Completely Green Approach for the Preparation of Strong and Highly Conductive Graphene Composite Film by Using Nanocellulose as Dispersing Agent and Mechanical Compression. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9102-9113	8.3	61

441	Dispersion and mechanical properties of polypropylene/multiwall carbon nanotubes composites obtained via dynamic packing injection molding. *Journal of Applied Polymer Science*, **2007**, 104, 1880-1886	2.9	61
440	Vibration-induced change of crystal structure in isotactic polypropylene and its improved mechanical properties. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 2385-2390	2.6	61
439	A Novel Surface Structure Consisting of Contact-active Antibacterial Upper-layer and Antifouling Sub-layer Derived from Gemini Quaternary Ammonium Salt Polyurethanes. *Scientific Reports*, **2016**, 6, 32140	4.9	60
438	Preparation of Transparent and Flexible Shape Memory Polybenzoxazine Film through Chemical Structure Manipulation and Hydrogen Bonding Control. *Macromolecules*, **2018**, 51, 6561-6570	5.5	60
437	Soft polymeric nanoparticle additives for next generation gas separation membranes. *Journal of Materials Chemistry A*, **2014**, 2, 4999	13	60
436	Shear-induced change of exfoliation and orientation in polypropylene/montmorillonite nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 1-10	2.6	60
435	Increasing both selectivity and permeability of mixed-matrix membranes: Sealing the external surface of porous MOF nanoparticles. *Journal of Membrane Science*, **2017**, 535, 350-356	9.6	58
434	Bioactive borate glass scaffolds: in vitro and in vivo evaluation for use as a drug delivery system in the treatment of bone infection. *Journal of Materials Science: Materials in Medicine*, **2010**, 21, 575-82	4.5	58
433	Porous and strong bioactive glass (13-93) scaffolds prepared by unidirectional freezing of camphene-based suspensions. *Acta Biomaterialia*, **2012**, 8, 415-23	10.8	57
432	Toward Supertough and Heat-Resistant Stereocomplex-Type Polylactide/Elastomer Blends with Impressive Melt Stability via in Situ Formation of Graft Copolymer during One-Pot Reactive Melt Blending. *Macromolecules*, **2019**, 52, 1718-1730	5.5	56
431	Conformation-Directed Micelle-to-Vesicle Transition of Cholesterol-Decorated Polypeptide Triggered by Oxidation. *Journal of the American Chemical Society*, **2018**, 140, 6604-6610	16.4	56
430	Tertiary amine catalyzed photo-induced controlled radical polymerization of methacrylates. *Polymer Chemistry*, **2015**, 6, 5362-5368	4.9	55
429	Significant Enhancement of Thermal Conductivity in Polymer Composite via Constructing Macroscopic Segregated Filler Networks. *ACS Applied Materials & Interfaces*, **2017**, 9, 29071-29081	9.5	55
428	The preparation and properties of polystyrene/functionalized graphene nanocomposite foams using supercritical carbon dioxide. *Polymer International*, **2013**, 62, 1077-1084	3.3	55
427	Brittle-Ductile Transition and Toughening Mechanism in POM/TPU/CaCO3 Ternary Composites. *Macromolecular Materials and Engineering*, **2004**, 289, 41-48	3.9	55
426	Progress and Perspectives Beyond Traditional RAFT Polymerization. *Advanced Science*, **2020**, 7, 2001656	13.6	55
425	Modified resistivity–strain behavior through the incorporation of metallic particles in conductive polymer composite fibers containing carbon nanotubes. *Polymer International*, **2013**, 62, 134-140	3.3	54
424	Control of the hierarchical structure of polymer articles via structuring–processing. *Progress in Polymer Science*, **2014**, 39, 891-920	29.6	54

423	Largely Enhanced Stretching Sensitivity of Polyurethane/Carbon Nanotube Nanocomposites via Incorporation of Cellulose Nanofiber. *Journal of Physical Chemistry C*, **2017**, 121, 2108-2117	3.8	52
422	Surface modifications of boron nitride nanosheets for poly(vinylidene fluoride) based film capacitors: advantages of edge-hydroxylation. *Journal of Materials Chemistry A*, **2019**, 7, 7664-7674	13	52
421	Hydrophobic cellulose films with excellent strength and toughness via ball milling activated acylation of microfibrillated cellulose. *Carbohydrate Polymers*, **2016**, 154, 129-38	10.3	52
420	Development of novel fluorinated additives for high performance CO2 separation thin-film composite membranes. *Journal of Membrane Science*, **2016**, 499, 191-200	9.6	51
419	Strong and tough micro/nanostructured poly(lactic acid) by mimicking the multifunctional hierarchy of shell. *Materials Horizons*, **2014**, 1, 546-552	14.4	51
418	A promising alternative to conventional polyethylene with poly(propylene carbonate) reinforced by graphene oxide nanosheets. *Journal of Materials Chemistry*, **2011**, 21, 17627		51
417	In vivo evaluation of 13-93 bioactive glass scaffolds with trabecular and oriented microstructures in a subcutaneous rat implantation model. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 235-44	5.4	51
416	Highly permeable membrane materials for CO2 capture. *Journal of Materials Chemistry A*, **2013**, 1, 13769	13	50
415	Ultrahigh-performance electrospun polylactide membranes with excellent oil/water separation ability via interfacial stereocomplex crystallization. *Journal of Materials Chemistry A*, **2017**, 5, 19729-19737	12	50
414	One-pot synthesis of heterograft copolymers via □graft onto□ by atom transfer nitroxide radical coupling chemistry. *Journal of Polymer Science Part A*, **2008**, 46, 6770-6779	2.5	50
413	Self-assembled 3D biocompatible and bioactive layer at the macro-interface via graphene-based supermolecules. *Polymer Chemistry*, **2014**, 5, 3563	4.9	49
412	Recent progress on PEDOT:PSS based polymer blends and composites for flexible electronics and thermoelectric devices. *Materials Chemistry Frontiers*, **2020**, 4, 3130-3152	7.8	48
411	Ultra-thin film composite mixed matrix membranes incorporating iron(III)-dopamine nanoparticles for CO2 separation. *Nanoscale*, **2016**, 8, 8312-23	7.7	47
410	Biodegradable gemini multiblock poly(□caprolactone urethane)s toward controllable micellization. *Soft Matter*, **2010**, 6, 2087	3.6	46
409	Powder metallurgy inspired low-temperature fabrication of high-performance stereocomplexed polylactide products with good optical transparency. *Scientific Reports*, **2016**, 6, 20260	4.9	45
408	Clickable and imageable multiblock polymer micelles with magnetically guided and PEG-switched targeting and release property for precise tumor theranosis. *Biomaterials*, **2017**, 145, 138-153	15.6	44
407	Constructing stereocomplex structures at the interface for remarkably accelerating matrix crystallization and enhancing the mechanical properties of poly(L-lactide)/multi-walled carbon nanotube nanocomposites. *Journal of Materials Chemistry A*, **2015**, 3, 13835-13847	13	44
406	Synthesis and self-assembly morphologies of amphiphilic multiblock copolymers [poly(ethylene oxide)-b-polystyrene]n via trithiocarbonate-embedded PEO macro-RAFT agent. *Journal of Polymer Science Part A*, **2006**, 44, 6071-6082	2.5	44

405	Polypeptide-Based Macroporous Cryogels with Inherent Antimicrobial Properties: The Importance of a Macroporous Structure. *ACS Macro Letters*, **2016**, 5, 552-557	6.6	44
404	Towards high-performance poly(L-lactide)/elastomer blends with tunable interfacial adhesion and matrix crystallization via constructing stereocomplex crystallites at the interface. *RSC Advances*, **2014**, 4, 49374-49385	3.7	43
403	Synthesis of novel cylindrical bottlebrush polypseudorotaxane via inclusion complexation of high density poly(ε-caprolactone) bottlebrush polymer and α-cyclodextrins. *Polymer Chemistry*, **2012**, 3, 343-351	4.9	43
402	Fenton-RAFT Polymerization: An "On-Demand" Chain-Growth Method. *Chemistry - A European Journal*, **2017**, 23, 7221-7226	4.8	42
401	Cellulose/Chitosan Composite Multifilament Fibers with Two-Switch Shape Memory Performance. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 6981-6990	8.3	41
400	Mechanically Strong Chitin Fibers with Nanofibril Structure, Biocompatibility, and Biodegradability. *Chemistry of Materials*, **2019**, 31, 2078-2087	9.6	41
399	Blood-Catalyzed RAFT Polymerization. *Angewandte Chemie - International Edition*, **2018**, 57, 10288-10292	16.4	41
398	Electrical properties of poly(phenylene sulfide)/multiwalled carbon nanotube composites prepared by simple mixing and compression. *Journal of Applied Polymer Science*, **2008**, 109, 720-726	2.9	41
397	From UV to NIR: A Full-Spectrum Metal-Free Photocatalyst for Efficient Polymer Synthesis in Aqueous Conditions. *Angewandte Chemie - International Edition*, **2020**, 59, 21392-21396	16.4	41
396	Organic Catalyst-Mediated Ring-Opening Polymerization for the Highly Efficient Synthesis of Polyester-Based Star Polymers. *ACS Macro Letters*, **2012**, 1, 681-686	6.6	40
395	Cyclodextrin-based supramolecular polymeric nanoparticles for next generation gas separation membranes. *Journal of Materials Chemistry A*, **2015**, 3, 14876-14886	13	39
394	Cisplatin-Induced Formation of Biocompatible and Biodegradable Polypeptide-Based Vesicles for Targeted Anticancer Drug Delivery. *Biomacromolecules*, **2015**, 16, 2463-74	6.9	39
393	A high-performance temperature sensitive TPV/CB elastomeric composite with balanced electrical and mechanical properties via PF-induced dynamic vulcanization. *Journal of Materials Chemistry A*, **2014**, 2, 16989-16996	13	39
392	Interfacial strength and mechanical properties of biocomposites based on ramie fibers and poly(butylene succinate). *RSC Advances*, **2013**, 3, 26418	3.7	39
391	Effect of annealing on the microstructure and mechanical properties of polypropylene with oriented shish-kebab structure. *Polymer International*, **2012**, 61, 252-258	3.3	39
390	Manipulating the phase morphology in PPS/PA66 blends using clay. *Journal of Applied Polymer Science*, **2007**, 106, 2238-2250	2.9	39
389	Combined effect of β-nucleating agent and multi-walled carbon nanotubes on polymorphic composition and morphology of isotactic polypropylene. *Journal of Thermal Analysis and Calorimetry*, **2012**, 107, 733-743	4.1	38
388	Novel drug carriers: from grafted polymers to cross-linked vesicles. *Chemical Communications*, **2013**, 49, 33-5	5.8	37

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386	Crystal morphology and crystallization kinetics of polyamide-11/clay nanocomposites. *Polymer International*, **2004**, 53, 1941-1949	3.3	37
385	Ductile–brittle-transition phenomenon in polypropylene/ethylene-propylene-diene rubber blends obtained by dynamic packing injection molding: A new understanding of the rubber-toughening mechanism. *Journal of Polymer Science, Part B: Polymer Physics*, **2002**, 40, 2086-2097	2.6	37
384	Synthesis of a thermoresponsive shell-crosslinked 3-layer onion-like polymer particle with a hyperbranched polyglycerol core. *Journal of Polymer Science Part A*, **2005**, 43, 5652-5660	2.5	37
383	MOF Scaffold for a High-Performance Mixed-Matrix Membrane. *Angewandte Chemie - International Edition*, **2018**, 57, 8597-8602	16.4	37
382	The effect of soft nanoparticles morphologies on thin film composite membrane performance. *Journal of Materials Chemistry A*, **2014**, 2, 17751-17756	13	36
381	Manipulation of Porous Bioceramic Microstructures by Freezing of Suspensions Containing Binary Mixtures of Solvents. *Journal of the American Ceramic Society*, **2008**, 91, 4137-4140	3.8	36
380	Effects of nano HAP on biological and structural properties of glass bone cement. *Journal of Biomedical Materials Research - Part A*, **2005**, 74, 156-63	5.4	36
379	Synthesis and characterization of biodegradable lysine-based waterborne polyurethane for soft tissue engineering applications. *Biomaterials Science*, **2016**, 4, 1682-1690	7.4	36
378	Postcombustion Carbon Capture Using Thin-Film Composite Membranes. *Accounts of Chemical Research*, **2019**, 52, 1905-1914	24.3	35
377	Green Production of Regenerated Cellulose/Boron Nitride Nanosheet Textiles for Static and Dynamic Personal Cooling. *ACS Applied Materials & Interfaces*, **2019**, 11, 40685-40693	9.5	35
376	Formation of new electric double percolation via carbon black induced co-continuous like morphology. *RSC Advances*, **2014**, 4, 37193	3.7	35
375	Improved thermal stability and mechanical properties of poly(propylene carbonate) by reactive blending with maleic anhydride. *Journal of Applied Polymer Science*, **2011**, 120, 3565-3573	2.9	35
374	Effect of alkylammonium salt on the dispersion and properties of Poly(p-phenylene sulfide)/clay nanocomposites via melt intercalation. *Journal of Applied Polymer Science*, **2006**, 99, 1724-1731	2.9	35
373	High-throughput CO2 capture using PIM-1@MOF based thin film composite membranes. *Chemical Engineering Journal*, **2020**, 396, 125328	14.7	35
372	Low-Temperature Sintering of Stereocomplex-Type Polylactide Nascent Powder: Effect of Crystallinity. *Macromolecules*, **2017**, 50, 7611-7619	5.5	34
371	Mechanically reinforced chitosan/cellulose nanocrystals composites with good transparency and biocompatibility. *Chinese Journal of Polymer Science (English Edition)*, **2015**, 33, 61-69	3.5	34
370	Magnet-induced aligning magnetorheological elastomer based on ultra-soft matrix. *Composites Science and Technology*, **2018**, 162, 170-179	8.6	34

369	Synthesis and micellization of new biodegradable phosphorylcholine-capped polyurethane. *Journal of Polymer Science Part A*, **2011**, 49, 2033-2042	2.5	34
368	Mechanically Strong Multifilament Fibers Spun from Cellulose Solution via Inducing Formation of Nanofibers. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 5314-5321	8.3	33
367	Spectroscopic Evidence of Melting of Ordered Structures in the Aged Glassy Poly(l-lactide). *Macromolecules*, **2010**, 43, 1702-1705	5.5	33
366	In vitro cellular response to hydroxyapatite scaffolds with oriented pore architectures. *Materials Science and Engineering C*, **2009**, 29, 2147-2153	8.3	33
365	Synthesis of amphiphilic hyperbranched polyglycerol polymers and their application as template for size control of gold nanoparticles. *Journal of Applied Polymer Science*, **2006**, 101, 509-514	2.9	33
364	Preparation of polyvinylidene fluoride/expanded graphite composites with enhanced thermal conductivity via ball milling treatment. *RSC Advances*, **2016**, 6, 45578-45584	3.7	33
363	Preparation of Polylactide/Poly(ether)urethane Blends with Excellent Electro-actuated Shape Memory via Incorporating Carbon Black and Carbon Nanotubes Hybrids Fillers. *Chinese Journal of Polymer Science (English Edition)*, **2018**, 36, 1175-1186	3.5	32
362	Highly Efficient and Versatile Formation of Biocompatible Star Polymers in Pure Water and Their Stimuli-Responsive Self-Assembly. *Macromolecules*, **2014**, 47, 7869-7877	5.5	32
361	Clicking fluorinated polyhedral oligomeric silsesquioxane onto polymers: a modular approach toward shape amphiphiles with fluorous molecular clusters. *Polymer Chemistry*, **2014**, 5, 3588	4.9	32
360	An Approach for the Sphere-to-Rod Transition of Multiblock Copolymer Micelles.. *ACS Macro Letters*, **2013**, 2, 146-151	6.6	32
359	Annealing-Induced Oriented Crystallization and Its Influence on the Mechanical Responses in the Melt-Spun Monofilament of Poly(l-lactide). *Macromolecules*, **2010**, 43, 1156-1158	5.5	32
358	Stochastic/Controlled Symmetry Breaking of the T8 -POSS Cages toward Multifunctional Regioisomeric Nanobuilding Blocks. *Chemistry - A European Journal*, **2015**, 21, 15246-55	4.8	31
357	Enhanced compatibilization and orientation of polyvinyl alcohol/gelatin composite fibers using carbon nanotubes. *Journal of Applied Polymer Science*, **2008**, 107, 4070-4075	2.9	31
356	Stretchable and Healable Conductive Elastomer Based on PEDOT:PSS/Natural Rubber for Self-Powered Temperature and Strain Sensing. *ACS Applied Materials & Interfaces*, **2021**, 13, 14599-14611	9.5	31
355	Influences of Coagulation Conditions on the Structure and Properties of Regenerated Cellulose Filaments via Wet-Spinning in LiOH/Urea Solvent. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 4056-4067	8.3	30
354	Gemini quaternary ammonium salt waterborne biodegradable polyurethanes with antibacterial and biocompatible properties. *Materials Chemistry Frontiers*, **2017**, 1, 361-368	7.8	30
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