George P. Simon

List of Publications by Year
in descending order

274 papers	13,497 citations	18436 62 h-index	30848 102 g-index
278 all docs	278 docs citations	278 times ranked	16667 citing authors

#	Article	IF	Citations
1	Nitrogenâ€Doped Nanoporous Carbon/Graphene Nanoâ€Sandwiches: Synthesis and Application for Efficient Oxygen Reduction. Advanced Functional Materials, 2015, 25, 5768-5777.	7.8	384
2	Thermoplastic toughening of epoxy resins: a critical review. Polymers for Advanced Technologies, 1998, 9, 3-10.	1.6	339
3	Preparation and characterization of slow-release fertilizer encapsulated by starch-based superabsorbent polymer. Carbohydrate Polymers, 2016, 147, 146-154.	5.1	301
4	Controllable corrugation of chemically converted graphene sheets in water and potential application for nanofiltration. Chemical Communications, 2011, 47, 5810.	2.2	296
5	Stimuli-responsive polymer hydrogels as a new class of draw agent for forward osmosis desalination. Chemical Communications, 2011, 47, 1710.	2.2	267
6	Scalable production of graphene via wet chemistry: progress and challenges. Materials Today, 2015, 18, 73-78.	8.3	265
7	Electrochemical exfoliation of graphite and production of functional graphene. Current Opinion in Colloid and Interface Science, 2015, 20, 329-338.	3.4	262
8	Rheological and Viscoelastic Behavior of HDPE/Octamethyl-POSS Nanocomposites. Macromolecules, 2006, 39, 1839-1849.	2.2	250
9	On the Interpretation of X-Ray Diffraction Powder Patterns in Terms of the Nanostructure of Cellulose I Fibres. Macromolecular Chemistry and Physics, 2005, 206, 1568-1575.	1.1	233
10	Thermoplastic toughening of epoxy resins: a critical review. Polymers for Advanced Technologies, 1998, 9, 3-10.	1.6	221
11	A Versatile Ironâ€“Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie - International Edition, 2016, 55, 1355-1359.	7.2	216
12	Gold Nanoparticleâ€“Paper as a Three-Dimensional Surface Enhanced Raman Scattering Substrate. Langmuir, 2012, 28, 8782-8790.	1.6	211
13	Ion transport in complex layered graphene-based membranes with tuneable interlayer spacing. Science Advances, 2016, 2, e1501272.	4.7	203
14	Robust Thermoresponsive Polymer Composite Membrane with Switchable Superhydrophilicity and Superhydrophobicity for Efficient Oilâ€“Water Separation. Environmental Science & Technology, 2016, 50, 906-914.	4.6	200
15	Low-voltage electrostatic modulation of ion diffusion through layered graphene-based nanoporous membranes. Nature Nanotechnology, 2018, 13, 685-690.	15.6	196
16	Altering the growth conditions of Gluconacetobacter xylinus to maximize the yield of bacterial cellulose. Carbohydrate Polymers, 2012, 89, 613-622.	5.1	195
17	Synthesis of New Polyaniline/Nanotube Composites Using Ultrasonically Initiated Emulsion Polymerization. Chemistry of Materials, 2006, 18, 6258-6265.	3.2	169
18	Paper surfaces functionalized by nanoparticles. Advances in Colloid and Interface Science, 2011, 163, 23-38.	7.0	154

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19	A graphene-directed assembly route to hierarchically porous Coâ€“N_x/C catalysts for high-performance oxygen reduction. Journal of Materials Chemistry A, 2015, 3, 16867-16873.	5.2	151
20	Composite polymer hydrogels as draw agents in forward osmosis and solar dewatering. Soft Matter, 2011, 7, 10048.	1.2	143
21	Curing kinetics and thermal properties of vinyl ester resins. Journal of Applied Polymer Science, 1997, 64, 769-781.	1.3	142
22	Forward osmosis desalination using polymer hydrogels as a draw agent: Influence of draw agent, feed solution and membrane on process performance. Water Research, 2013, 47, 209-215.	5.3	142
23	Influence of the polymer structure and nanotube concentration on the conductivity and rheological properties of polyethylene/CNT composites. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 2440-2445.	1.3	141
24	Synthesis of a diamine cross-linker containing Dielsâ€“Alder adducts to produce self-healing thermosetting epoxy polymer from a widely used epoxy monomer. Polymer Chemistry, 2013, 4, 724-730.	1.9	139
25	Polycrystalline Advanced Microporous Framework Membranes for Efficient Separation of Small Molecules and Ions. Advanced Materials, 2020, 32, e1902009.	11.1	134
26	A sunlight-responsive metalâ€“organic framework system for sustainable water desalination. Nature Sustainability, 2020, 3, 1052-1058.	11.5	131
27	Standing Enokitake-like Nanowire Films for Highly Stretchable Elastronics. ACS Nano, 2018, 12, 9742-9749.	7.3	130
28	Volume-invariant ionic liquid microbands as highly durable wearable biomedical sensors. Materials Horizons, 2016, 3, 208-213.	6.4	121
29	Studies on blends of epoxy-functionalized hyperbranched polymer and epoxy resin. Journal of Materials Science, 2003, 38, 147-154.	1.7	118
30	Effect of organo-phosphorus and nano-clay materials on the thermal and fire performance of epoxy resins. Journal of Applied Polymer Science, 2004, 91, 1233-1253.	1.3	118
31	Effect of particle size on the performance of forward osmosis desalination by stimuli-responsive polymer hydrogels as a draw agent. Chemical Engineering Journal, 2013, 215-216, 913-920.	6.6	116
32	The effect of functionalization on structure and electrical conductivity of multi-walled carbon nanotubes. Journal of Nanoparticle Research, 2008, 10, 77-88.	0.8	110
33	Vertically Aligned Gold Nanowires as Stretchable and Wearable Epidermal Ion-Selective Electrode for Noninvasive Multiplexed Sweat Analysis. Analytical Chemistry, 2020, 92, 4647-4655.	3.2	108
34	Toughening of trifunctional epoxy using an epoxy-functionalized hyperbranched polymer. Journal of Applied Polymer Science, 2003, 89, 2339-2345.	1.3	104
35	Controllable synthesis of mesoporous carbon nanospheres and Feâ€“N/carbon nanospheres as efficient oxygen reduction electrocatalysts. Nanoscale, 2015, 7, 6247-6254.	2.8	104
36	Bifunctional Polymer Hydrogel Layers As Forward Osmosis Draw Agents for Continuous Production of Fresh Water Using Solar Energy. Environmental Science & Technology, 2013, 47, 13160-13166.	4.6	103

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37	Internal structures and phase-transitions of starch granules during gelatinization. Carbohydrate Polymers, 2011, 83, 1975-1983.	5.1	100
38	Highly crosslinked, chlorine tolerant polymer network entwined graphene oxide membrane for water desalination. Journal of Materials Chemistry A, 2017, 5, 1533-1540.	5.2	96
39	Significantly enhanced water flux in forward osmosis desalination with polymer-graphene composite hydrogels as a draw agent. RSC Advances, 2013, 3, 887-894.	1.7	92
40	Mechanically-Assisted Electrochemical Production of Graphene Oxide. Chemistry of Materials, 2016, 28, 8429-8438.	3.2	91
41	Enokitake Mushroom-like Standing Gold Nanowires toward Wearable Noninvasive Bimodal Glucose and Strain Sensing. ACS Applied Materials & Interfaces, 2019, 11, 9724-9729.	4.0	91
42	Voltage-Gated Ion Transport in Two-Dimensional Sub-1 nm Nanofluidic Channels. ACS Nano, 2019, 13, 11793-11799.	7.3	89
43	Morphologies and microstructures of cornstarches with different amyloseâ€“amylopectin ratios studied by confocal laser scanning microscope. Journal of Cereal Science, 2009, 50, 241-247.	1.8	88
44	Photodegradable Gelatin-Based Hydrogels Prepared by Bioorthogonal Click Chemistry for Cell Encapsulation and Release. Biomacromolecules, 2015, 16, 2246-2253.	2.6	85
45	Synthesis of POSSâ^'Methyl Methacrylate-Based Cross-Linked Hybrid Materials. Macromolecules, 2008, 41, 1685-1692.	2.2	82
46	Fast Deswelling of Nanocomposite Polymer Hydrogels via Magnetic Field-Induced Heating for Emerging FO Desalination. Environmental Science & Technology, 2013, 47, 6297-6305.	4.6	82
47	The enhanced hydrogen separation performance of mixed matrix membranes by incorporation of two-dimensional ZIF-L into polyimide containing hydroxyl group. Journal of Membrane Science, 2018, 549, 260-266.	4.1	82
48	Enhancement of desalination performance of thin-film nanocomposite membrane by cellulose nanofibers. Journal of Membrane Science, 2019, 592, 117363.	4.1	82
49	Conditions of applying Oliverâ€“Pharr method to the nanoindentation of particles in composites. Composites Science and Technology, 2012, 72, 1147-1152.	3.8	79
50	In situ modifications to bacterial cellulose with the water insoluble polymer poly-3-hydroxybutyrate. Carbohydrate Polymers, 2013, 92, 1717-1723.	5.1	76
51	Enhanced Thermal Conductivity of Copper Nanofluids: The Effect of Filler Geometry. ACS Applied Materials & Interfaces, 2017, 9, 18925-18935.	4.0	72
52	Effects of annealing on gelatinization and microstructures of corn starches with different amylose/amylopectin ratios. Carbohydrate Polymers, 2009, 77, 662-669.	5.1	71
53	Highly permeable thermally rearranged polymer composite membranes with a graphene oxide scaffold for gas separation. Journal of Materials Chemistry A, 2018, 6, 7668-7674.	5.2	71
54	One-shot TEMPO-periodate oxidation of native cellulose. Carbohydrate Polymers, 2019, 226, 115292.	5.1	71

#	Article	IF	Citations
55	Grapheneâ€Directed Supramolecular Assembly of Multifunctional Polymer Hydrogel Membranes. Advanced Functional Materials, 2015, 25, 126-133.	7.8	69
56	Processing and morphological development of carbon black filled conducting blends using a binary host of poly(styrene co-acrylonitrile) and poly(styrene). Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 3106-3119.	2.4	68
57	Enhanced Mechanical Performance of Bio-Inspired Hybrid Structures Utilising Topological Interlocking Geometry. Scientific Reports, 2016, 6, 26706.	1.6	68
58	Cold isostatic pressing technique for producing highly efficient flexible dyeâ€sensitised solar cells on plastic substrates. Progress in Photovoltaics: Research and Applications, 2012, 20, 321-332.	4.4	67
59	Effects of hydrophilic fillers on the thermal degradation of poly(lactic acid). Thermochimica Acta, 2010, 509, 147-151.	1.2	66
60	Interfacing Colloidal Graphene Oxide Sheets with Gold Nanoparticles. Chemistry - A European Journal, 2011, 17, 5958-5964.	1.7	66
61	Electrolyte gating in graphene-based supercapacitors and its use for probing nanoconfined charging dynamics. Nature Nanotechnology, 2020, 15, 683-689.	15.6	66
62	Unconventional Janus Properties of Enokitake-like Gold Nanowire Films. ACS Nano, 2018, 12, 8717-8722.	7.3	65
63	Starch gelatinization under pressure studied by high pressure DSC. Carbohydrate Polymers, 2009, 75, 395-400.	5.1	64
64	Reinforcing brittle and ductile epoxy matrices using carbon nanotubes masterbatch. Composites Part A: Applied Science and Manufacturing, 2014, 61, 126-133.	3.8	64
65	Liquid-Wetting-Solid Strategy To Fabricate Stretchable Sensors for Human-Motion Detection. ACS Sensors, 2016, 1, 303-311.	4.0	64
66	Non-swelling graphene oxide-polymer nanocomposite membrane for reverse osmosis desalination. Journal of Membrane Science, 2018, 562, 47-55.	4.1	64
67	The effect of carbon nanotube properties on the degree of dispersion and reinforcement of high density polyethylene. Polymer, 2010, 51, 3540-3550.	1.8	63
68	Effect of cationic polyacrylamides on the aggregation and SERS performance of gold nanoparticles-treated paper. Journal of Colloid and Interface Science, 2013, 392, 237-246.	5.0	62
69	Preparation of graphene nanowalls by a simple microwave-based method. Carbon, 2010, 48, 3993-4000.	5.4	61
70	Effects of oxygen plasma treatment on the surface of bisphenol A polycarbonate: a study using SIMS, principal component analysis, ellipsometry, XPS and AFM nanoindentation. Surface and Interface Analysis, 2006, 38, 1186-1197.	0.8	60
71	Manipulation of mechanical compliance of elastomeric PGS by incorporation of halloysite nanotubes for soft tissue engineering applications. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 1805-1818.	1.5	59
72	A Versatile Ironâ€“Tanninâ€Framework Ink Coating Strategy to Fabricate Biomassâ€Derived Iron Carbide/Feâ€Nâ€Carbon Catalysts for Efficient Oxygen Reduction. Angewandte Chemie, 2016, 128, 1377-1381.	1.6	59

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73	Vertical Gold Nanowires Stretchable Electrochemical Electrodes. Analytical Chemistry, 2018, 90, 13498-13505.	3.2	58
74	Copper Nanowireâ€Filled Soft Elastomer Composites for Applications as Thermal Interface Materials. Advanced Materials Interfaces, 2017, 4, 1700387.	1.9	57
75	A Review on Emerging Barrier Materials and Encapsulation Strategies for Flexible Perovskite and Organic Photovoltaics. Advanced Energy Materials, 2021, 11, 2101383.	10.2	57
76	Nanocomposites of poly(methyl methacrylate) and organically modified layered silicates by melt intercalation. Journal of Applied Polymer Science, 2004, 92, 2101-2115.	1.3	55
77	Scission of electrospun polymer fibres by ultrasonication. Polymer, 2013, 54, 4237-4252.	1.8	54
78	Some issues on nanoindentation method to measure the elastic modulus of particles in composites. Composites Part B: Engineering, 2011, 42, 2093-2097.	5.9	52
79	Dielectric Relaxations in a Hyperbranched Polyester with Terminal Hydroxyl Groups: Effects of Generation Number. Macromolecular Chemistry and Physics, 2001, 202, 3008-3017.	1.1	51
80	Phase separation, porous structure, and cure kinetics in aliphatic epoxy resin containing hyperbranched polyester. Journal of Polymer Science, Part B: Polymer Physics, 2006, 44, 889-899.	2.4	51
81	Thermoresponsive Amphoteric Metalâ€“Organic Frameworks for Efficient and Reversible Adsorption of Multiple Salts from Water. Advanced Materials, 2018, 30, e1802767.	11.1	51
82	Synthesis and thermal behavior of inorganic-organic hybrid geopolymer composites. Journal of Applied Polymer Science, 2005, 96, 112-121.	1.3	50
83	Light triggered self-healing of polyacrylate polymers crosslinked with 7-methacryloyoxycoumarin crosslinker. Polymer Chemistry, 2017, 8, 5875-5883.	1.9	49
84	Light-Healable Epoxy Polymer Networks via Anthracene Dimer Scission of Diamine Crosslinker. ACS Applied Materials & Interfaces, 2019, 11, 19429-19443.	4.0	48
85	Photoreversible Smart Polymers Based on 2Ï€ + 2Ï€ Cycloaddition Reactions: Nanofilms to Self-Healing Films. Macromolecules, 2019, 52, 2446-2455.	2.2	47
86	Fabrication and characterization of functionally graded synthetic graphite/phenolic nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 545, 123-131.	2.6	46
87	Light-triggered release of ciprofloxacin from an in situ forming click hydrogel for antibacterial wound dressings. Journal of Materials Chemistry B, 2015, 3, 8771-8774.	2.9	46
88	Design, Preparation and Characterization of Selfâ€Reinforced Starch Films through Chemical Modification. Macromolecular Materials and Engineering, 2010, 295, 1025-1030.	1.7	45
89	Insights into the hierarchical structure and digestion rate of alkali-modulated starches with different amylose contents. Carbohydrate Polymers, 2016, 144, 271-281.	5.1	45
90	Field emission study of graphene nanowalls prepared by microwave-plasma method. Carbon, 2011, 49, 2875-2877.	5.4	44

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91	Hydrogel-polyurethane interpenetrating network material as an advanced draw agent for forward osmosis process. Water Research, 2016, 96, 292-298.	5.3	43
92	Controlling the transparency and rheology of nanocellulose gels with the extent of carboxylation. Carbohydrate Polymers, 2020, 245, 116566.	5.1	43
93	Toughening of a trifunctional epoxy system. II. Thermal characterization of epoxy/amine cure. Journal of Applied Polymer Science, 1996, 60, 2251-2263.	1.3	42
94	Nanostructured ZrO2-Coated TiO2 Electrodes for Dye-Sensitised Solar Cells. Journal of Sol-Gel Science and Technology, 2004, 32, 363-366.	1.1	42
95	Cyclodextrin metal-organic framework-polymer composite membranes towards ultimate and stable enantioselectivity. Journal of Membrane Science, 2021, 620, 118956.	4.1	42
96	Cure properties of epoxies with varying chain length as studied by DSC. Journal of Applied Polymer Science, 1999, 72, 1479-1488.	1.3	41
97	Use of layered silicates to supplementarily toughen high performance epoxy-carbon fiber composites. Journal of Materials Science Letters, 2003, 22, 1411-1414.	0.5	41
98	Anomalous rheological behavior in chemically modified TiO2 colloidal pastes prepared for flexible dye-sensitized solar cells. Journal of Materials Chemistry, 2010, 20, 9954.	6.7	41
99	Deformation mechanics of non-planar topologically interlocked assemblies with structural hierarchy and varying geometry. Scientific Reports, 2017, 7, 11844.	1.6	41
100	Response to Osmotic Pressure versus Swelling Pressure: Comment on â€œBifunctional Polymer Hydrogel Layers As Forward Osmosis Draw Agents for Continuous Production of Fresh Water Using Solar Energyâ€• Environmental Science & Technology, 2014, 48, 4214-4215.	4.6	40
101	Self-assembled gold nanorime mesh conductors for invisible stretchable supercapacitors. Nanoscale, 2018, 10, 15948-15955.	2.8	40
102	Effect of annealing and pressure on microstructure of cornstarches with different amylose/amylopectin ratios. Carbohydrate Research, 2009, 344, 350-354.	1.1	39
103	Investigation of the thermal self-healing mechanism in a cross-linked epoxy system. RSC Advances, 2013, 3, 20699.	1.7	39
104	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. Angewandte Chemie - International Edition, 2018, 57, 16056-16061.	7.2	39
105	Development of bio-acrylic polymers from Cyreneâ„¢: transforming a green solvent to a green polymer. Polymer Chemistry, 2019, 10, 3334-3341.	1.9	39
106	A free volume study of miscible polyester blends. Polymer International, 1995, 36, 127-136.	1.6	38
107	Processing and chemorheology of epoxy resins and their blends with dendritic hyperbranched polymers. Journal of Applied Polymer Science, 2004, 92, 1604-1610.	1.3	38
108	Thermal and mechanical properties of a hydroxyl-functional dendritic hyperbranched polymer and trifunctional epoxy resin blends. Polymer Engineering and Science, 2001, 41, 1815-1822.	1.5	37

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109	Optimizing the degree of carbon nanotube dispersion in a solvent for producing reinforced epoxy matrices. Powder Technology, 2015, 284, 541-550.	2.1	37
110	Phase reduction of coated maghemite (Î³-Fe₂O₃) nanoparticles under microwave-induced plasma heating for rapid heat treatment. Journal of Materials Chemistry, 2012, 22, 617-625.	6.7	36
111	Toughening of trifunctional epoxy system. V. Structure-property relationships of neat resin. Journal of Applied Polymer Science, 2000, 77, 237-248.	1.3	35
112	Influence of Noncovalent Modification on Dispersion State of Multiwalled Carbon Nanotubes in Melt-Mixed Immiscible Polymer Blends. ACS Applied Materials & Interfaces, 2014, 6, 11054-11067.	4.0	35
113	Selective Permeation of Water through Angstromâ€Channel Graphene Membranes for Bioethanol Concentration. Advanced Materials, 2020, 32, e2002320.	11.1	35
114	The effect of crystallinity on chain mobility and free volume in the amorphous regions of a miscible polycarbonate/polyester blend. Journal of Polymer Science, Part B: Polymer Physics, 1994, 32, 1237-1247.	2.4	34
115	How rheological behaviors of concentrated starch affect graft copolymerization of acrylamide and resultant hydrogel. Carbohydrate Polymers, 2019, 219, 395-404.	5.1	34
116	Intrinsically Stretchable Fuel Cell Based on Enokitakeâ€Like Standing Gold Nanowires. Advanced Energy Materials, 2020, 10, 1903512.	10.2	34
117	A phosphorus-containing diamine for flame-retardant, high-functionality epoxy resins. I. Synthesis, reactivity, and thermal degradation properties. Journal of Applied Polymer Science, 2004, 92, 2093-2100.	1.3	33
118	Carbon Nanotube Networks as Nanoscaffolds for Fabricating Ultrathin Carbon Molecular Sieve Membranes. ACS Applied Materials & Interfaces, 2018, 10, 20182-20188.	4.0	33
119	Chemistries and capabilities of photo-formable and photoreversible crosslinked polymer networks. Materials Horizons, 2019, 6, 1762-1773.	6.4	33
120	Rheological and Structure Investigation of Melt Mixed Multi-Walled Carbon Nanotube/PE Composites. Macromolecular Symposia, 2007, 247, 78-87.	0.4	32
121	A simple microwave-based method for preparation of Fe3O4/carbon composite nanoparticles. Materials Letters, 2010, 64, 1684-1687.	1.3	32
122	Experimental investigation on the thermal and mechanical properties of nanoclay-modified adhesives used for bonding CFRP to concrete substrates. Construction and Building Materials, 2012, 28, 769-778.	3.2	32
123	Rheological and gel properties of hydroxypropyl methylcellulose/hydroxypropyl starch blends. Colloid and Polymer Science, 2015, 293, 229-237.	1.0	32
124	Microwave processing of TiO2 blocking layers for dye-sensitized solar cells. Journal of Sol-Gel Science and Technology, 2006, 40, 45-54.	1.1	31
125	Characterisation of the thermal self-healing of a high crosslink density epoxy thermoset. New Journal of Chemistry, 2015, 39, 3497-3506.	1.4	31
126	Functionalized Boron Nitride Nanosheets: A Thermally Rearranged Polymer Nanocomposite Membrane for Hydrogen Separation. Angewandte Chemie, 2018, 130, 16288-16293.	1.6	30

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127	Photocuring of 4-arm coumarin-functionalised monomers to form highly photoreversible crosslinked epoxy coatings. Polymer Chemistry, 2019, 10, 2134-2142.	1.9	30
128	Correlation between molecular structure, free volume, and physical properties of a wide range of main chain thermotropic liquid crystalline polymers. Journal of Applied Polymer Science, 2001, 82, 2252-2267.	1.3	28
129	Nitrile Oxide-Norbornene Cycloaddition as a Bioorthogonal Crosslinking Reaction for the Preparation of Hydrogels. Macromolecular Rapid Communications, 2015, 36, 1729-1734.	2.0	28
130	Preparation and characterization of uniaxial poly(lactic acid)-based self-reinforced composites. Composites Science and Technology, 2015, 117, 392-397.	3.8	28
131	The effect of the nanotube oxidation on the rheological and electrical properties of CNT/HDPE nanocomposites. Polymer Engineering and Science, 2017, 57, 665-673.	1.5	28
132	Biodegradability of Poly-3-hydroxybutyrate/Bacterial Cellulose Composites under Aerobic Conditions, Measured via Evolution of Carbon Dioxide and Spectroscopic and Diffraction Methods. Environmental Science & Technology, 2015, 49, 9979-9986.	4.6	27
133	Modulating transparency and colour of cellulose nanocrystal composite films by varying polymer molecular weight. Journal of Colloid and Interface Science, 2021, 584, 216-224.	5.0	27
134	Phenolic Ester-Decorated Cellulose Nanocrystals as UV-Absorbing Nanoreinforcements in Polyvinyl Alcohol Films. ACS Sustainable Chemistry and Engineering, 2021, 9, 6427-6437.	3.2	27
135	Free volume and water uptake in a copolymer hydrogel series. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 463-471.	2.4	26
136	PALS free volume and mechanical properties in dimethacrylate-based thermosets. Polymer International, 2004, 53, 557-568.	1.6	26
137	The Effect of Shear Deformation on Nylon-6 and Two Types of Nylon-6/Clay Nanocomposite. Macromolecules, 2008, 41, 409-420.	2.2	26
138	Effect of Cationic Polyacrylamides on the Interactions between Cellulose Fibers. Langmuir, 2012, 28, 3641-3649.	1.6	26
139	Evolution of directly-spinnable carbon nanotube growth by recycling analysis. Carbon, 2011, 49, 1989-1997.	5.4	25
140	Preparation and properties of composition-controlled carbon nanofiber/phenolic nanocomposites. Composites Part B: Engineering, 2013, 52, 120-126.	5.9	25
141	Rheokinetics of graft copolymerization of acrylamide in concentrated starch and rheological behaviors and microstructures of reaction products. Carbohydrate Polymers, 2018, 192, 1-9.	5.1	25
142	Effect of plasticizers on microstructure, compatibility and mechanical property of hydroxypropyl methylcellulose/hydroxypropyl starch blends. International Journal of Biological Macromolecules, 2018, 119, 141-148.	3.6	25
143	Toughening of a trifunctional epoxy system: IV. Dynamic mechanical relaxational study of the thermoplastic-modified cure process. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 153-163.	2.4	24
144	Effects of molecular weight and clay organo-ions on the melt intercalation of poly(ethylene oxide) into layered silicates. Polymer Engineering and Science, 2002, 42, 2369-2382.	1.5	24

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145	Design of responsive materials using topologically interlocked elements. Smart Materials and Structures, 2015, 24, 025034.	1.8	24
146	Improvement of the Swelling Properties of Ionic Hydrogels by the Incorporation of Hydrophobic, Elastic Microfibers for Forward Osmosis Applications. Industrial & Engineering Chemistry Research, 2017, 56, 505-512.	1.8	24
147	Effect of alkanol surface grafting on the hydrophobicity of starch-based films. International Journal of Biological Macromolecules, 2018, 112, 761-766.	3.6	24
148	Grafting Natureâ€Inspired and Bioâ€Based Phenolic Esters onto Cellulose Nanocrystals Gives Biomaterials with Photostable Antiâ€UV Properties. ChemSusChem, 2020, 13, 6552-6561.	3.6	24
149	Epoxy and hyperbranched polymer blends: Morphology and free volume. Journal of Applied Polymer Science, 2010, 117, 557-564.	1.3	23
150	Synthesis of Bioacrylic Polymers from Dihydro-5-hydroxyl furan-2-one (2H-HBO) by Free and Controlled Radical Polymerization. ACS Omega, 2018, 3, 2040-2048.	1.6	23
151	ASSUREDâ€compliant pointâ€ofâ€care diagnostics for the detection of human viral infections. Reviews in Medical Virology, 2022, 32, e2263.	3.9	23
152	Effect of compositional gradient on thermal behavior of synthetic graphiteâ€“phenolic nanocomposites. Journal of Thermal Analysis and Calorimetry, 2012, 109, 1169-1176.	2.0	22
153	Aqueous hydrogen peroxide-induced degradation of polyolefins: AÂgreener process for controlled-rheology polypropylene. Polymer Degradation and Stability, 2015, 117, 97-108.	2.7	22
154	Properties of a semi-crystalline and an amorphous thermotropic liquid crystalline polymer. Polymer International, 1992, 27, 165-175.	1.6	21
155	Towards a better understanding of the cathodic disbondment performance of polyethylene coatings on steel. Advances in Polymer Technology, 2002, 21, 44-58.	0.8	21
156	Peel-strength behavior of bilayer thermal-sprayed polymer coatings. Journal of Applied Polymer Science, 2003, 88, 214-226.	1.3	21
157	Synthesis, thermal behavior, and cone calorimetry of organophosphorus epoxy materials. Journal of Applied Polymer Science, 2003, 90, 3696-3707.	1.3	21
158	Investigation of thermal and fire performance of novel hybrid geopolymer composites. Journal of Materials Science, 2004, 39, 4721-4726.	1.7	21
159	Aligned silane-treated MWCNT/liquid crystal polymer films. Nanotechnology, 2008, 19, 175602.	1.3	21
160	Microfiber-polymer hydrogel monolith as forward osmosis draw agent. Journal of Membrane Science, 2016, 510, 426-436.	4.1	21
161	Melt-mixed composites of multi-walled carbon nanotubes and thermotropic liquid crystalline polymer: Morphology, rheology and mechanical properties. Composites Science and Technology, 2017, 151, 184-192.	3.8	21
162	Improvement and tuning of the performance of light-healable polymers by variation of the monomer content. Polymer Chemistry, 2018, 9, 5585-5593.	1.9	21

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163	Electrochemically-derived graphene oxide membranes with high stability and superior ionic sieving. Chemical Communications, 2019, 55, 4075-4078.	2.2	21
164	Relationship between morphologies and mechanical properties of hydroxypropyl methylcellulose/hydroxypropyl starch blends. Carbohydrate Polymers, 2016, 153, 329-335.	5.1	20
165	Polyhedral oligomeric silsesquioxaneâ€bound iminofullerene. Applied Organometallic Chemistry, 2010, 24, 184-188.	1.7	19
166	Effect of processing conditions on microstructures and properties of hydroxypropyl methylcellulose/hydroxypropyl starch blends. Food Hydrocolloids, 2017, 70, 251-259.	5.6	19
167	Phase separation, physical properties and melt rheology of a range of variously transesterified amorphous poly(ethylene terephthalate)-poly(ethylene naphthalate) blends. Journal of Applied Polymer Science, 2002, 83, 1556-1567.	1.3	18
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