Changsik Song

List of Publications by Year
in descending order

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88	2,736	236925 25	189892 50
papers	citations	h-index	g-index

88	88	88	4705
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	TOTAPOL: A Biradical Polarizing Agent for Dynamic Nuclear Polarization Experiments in Aqueous Media. Journal of the American Chemical Society, 2006, 128, 11385-11390.	13.7	487
2	Chemically driven carbon-nanotube-guided thermopower waves. Nature Materials, 2010, 9, 423-429.	27.5	276
3	The rational design of nitric oxide selectivity in single-walled carbon nanotube near-infrared fluorescence sensors for biological detection. Nature Chemistry, 2009, 1, 473-481.	13.6	238
4	Three-Dimensional Electroconductive Hyaluronic Acid Hydrogels Incorporated with Carbon Nanotubes and Polypyrrole by Catechol-Mediated Dispersion Enhance Neurogenesis of Human Neural Stem Cells. Biomacromolecules, 2017, 18, 3060-3072.	5.4	144
5	Evidence for High-Efficiency Exciton Dissociation at Polymer/Single-Walled Carbon Nanotube Interfaces in Planar Nano-heterojunction Photovoltaics. ACS Nano, 2010, 4, 6251-6259.	14.6	82
6	Towards fabrication of high-performing organic photovoltaics: new donor-polymer, atomic layer deposited thin buffer layer and plasmonic effects. Energy and Environmental Science, 2012, 5, 9803.	30.8	78
7	Structure Code for Advanced Polymer Electrolyte in Lithiumâ€ion Batteries. Advanced Functional Materials, 2021, 31, 2008208.	14.9	77
8	Exciton antennas and concentrators from coreâ€“shell and corrugated carbon nanotube filaments of homogeneous composition. Nature Materials, 2010, 9, 833-839.	27.5	75
9	Ï€-Dimer Formation as the Driving Force for Calix[4]arene-Based Molecular Actuators. Organic Letters, 2008, 10, 3575-3578.	4.6	71
10	Anti-inflammatory activities and mechanisms of Artemisia asiatica ethanol extract. Journal of Ethnopharmacology, 2014, 152, 487-496.	4.1	63
11	N-Heterocyclic Carbene-Based Conducting Polymerâ€“Gold Nanoparticle Hybrids and Their Catalytic Application. Macromolecules, 2014, 47, 6566-6571.	4.8	55
12	Facile Solid-State Mechanochemical Synthesis of Eco-Friendly Thermoplastic Polyurethanes and Copolymers Using a Biomass-Derived Furan Diol. ACS Sustainable Chemistry and Engineering, 2020, 8, 4400-4406.	6.7	40
13	Ï€-Dimer Formation in an Oligothiophene Tweezer Molecule. Organic Letters, 2008, 10, 5003-5005.	4.6	39
14	Role of Adsorbed Surfactant in the Reaction of Aryl Diazonium Salts with Single-Walled Carbon Nanotubes. Langmuir, 2012, 28, 1309-1321.	3.5	37
15	Novel Radical Alkylation of Carboxylic Imides. Journal of the American Chemical Society, 2002, 124, 14306-14307.	13.7	34
16	Carbon nanotube covalent bonding mediates extraordinary electron and phonon transports in soft epoxy matrix interface materials. Carbon, 2020, 157, 12-21.	10.3	34
17	Highly Conductive Poly(phenylene thienylene)s:Âm-Phenylene Linkages Are Not Always Bad. Macromolecules, 2005, 38, 4569-4576.	4.8	31
18	Facile Mechanochemical Synthesis of Malleable Biomass-Derived Network Polyurethanes and Their Shape-Memory Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 6952-6961.	6.7	31

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19	Synthesis and Energy Release of Nitrobenzene-Functionalized Single-Walled Carbon Nanotubes. Chemistry of Materials, 2011, 23, 4557-4562.	6.7	29
20	Synthesis of electroconductive hydrogel films by an electro-controlled click reaction and their application to drug delivery systems. Polymer Chemistry, 2015, 6, 4473-4478.	3.9	29
21	Copper-Catalyzed Aza-Michael Addition of 2-Aminobenzoate to Î²-Substituted Î±,Î²-Unsaturated Ketones: One-Pot Synthesis of 3-Carbonyl-2-Substituted Quinolin-4(1H)-ones. Journal of Organic Chemistry, 2018, 83, 2694-2705.	3.2	29
22	Hyper-Cross-Linked Polymer on the Hollow Conjugated Microporous Polymer Platform: A Heterogeneous Catalytic System for Poly(caprolactone) Synthesis. ACS Macro Letters, 2019, 8, 687-693.	4.8	28
23	Reactive Conducting Thiepin Polymers. Journal of Organic Chemistry, 2010, 75, 999-1005.	3.2	27
24	Fabrication of a superhydrophobic and oleophobic PTFE membrane: An application to selective gas permeation. Materials Research Bulletin, 2016, 83, 88-95.	5.2	27
25	Structural Effect of Thioureas on the Detection of Chemical Warfare Agent Simulants. ACS Sensors, 2017, 2, 1146-1151.	7.8	27
26	UV-mediated synthesis of pNIPAM-crosslinked double-network alginate hydrogels: Enhanced mechanical and shape-memory properties by metal ions and temperature. Polymer, 2018, 149, 206-212.	3.8	26
27	Facile electrochemical synthesis of polydopamine-incorporated graphene oxide/PEDOT hybrid thin films for pseudocapacitive behaviors. Synthetic Metals, 2014, 195, 162-166.	3.9	25
28	Long dsRNA-Mediated RNA Interference and Immunostimulation: A Targeted Delivery Approach Using Polyethyleneimine Based Nano-Carriers. Molecular Pharmaceutics, 2014, 11, 872-884.	4.6	22
29	Triazole-conjugated spiropyran: synthesis, selectivity toward Cu(II), and binding study. Tetrahedron Letters, 2015, 56, 6080-6084.	1.4	22
30	Conducting Polymers Containing peri-Xanthenoxanthenes via Oxidative Cyclization of Binaphthols. Macromolecules, 2009, 42, 1472-1475.	4.8	20
31	Aromaticity in Tropone-Containing Polythiophene. Macromolecules, 2006, 39, 5598-5600.	4.8	19
32	Terpyridine-functionalized stimuli-responsive microgels and their assembly through metalâ€“ligand interactions. Polymer Chemistry, 2018, 9, 1032-1039.	3.9	19
33	Synthesis of single-walled carbon nanotube-incorporated polymer hydrogels via click chemistry. Polymer Chemistry, 2012, 3, 2451.	3.9	18
34	Effects of chemical fuel composition on energy generation from thermopower waves. Nanotechnology, 2014, 25, 445403.	2.6	18
35	Biomassâ€derived furanic polycarbonates: Mild synthesis and control of the glass transition temperature. Journal of Polymer Science Part A, 2019, 57, 1796-1800.	2.3	18
36	Single-Walled Carbon-Nanotube-Based Chemocapacitive Sensors with Molecular Receptors for Selective Detection of Chemical Warfare Agents. ACS Applied Nano Materials, 2019, 2, 109-117.	5.0	18

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37	Controllable Synthesis of Single-Walled Carbon Nanotube Framework Membranes and Capsules. Nano Letters, 2009, 9, 4279-4284.	9.1	16
38	Simple noncovalent hybridization of polyaniline with graphene and its application for pseudocapacitor. Synthetic Metals, 2015, 209, 60-67.	3.9	16
39	Anion-Responsive Thiourea-Based Gel Actuator. Chemistry of Materials, 2019, 31, 5735-5741.	6.7	16
40	Suppressing Ï€â€“Ï€ stacking interactions for enhanced solid-state emission of flat aromatic moleculesviaedge functionalization with picket-fence-type groups. Journal of Materials Chemistry C, 2020, 8, 17289-17296.	5.5	16
41	Conducting Thiophene-Annulated Azepine Polymers. Macromolecules, 2010, 43, 5233-5237.	4.8	14
42	Chemically Driven, Water-Soluble Composites of Carbon Nanotubes and Silver Nanoparticles as Stretchable Conductors. ACS Macro Letters, 2015, 4, 769-773.	4.8	14
43	Highâ€Temperature Skin Softening Materials Overcoming the Tradeâ€Off between Thermal Conductivity and Thermal Contact Resistance. Small, 2021, 17, e2102128.	10.0	14
44	Electroactive polymer sensors for chiral amines based on optically active 1,1â€²-binaphthyls. Materials Express, 2013, 3, 119-126.	0.5	13
45	Conductive polythiophene-like thin film synthesized using controlled plasma processes. Thin Solid Films, 2015, 587, 66-70.	1.8	13
46	Dynamic Covalent Hydrazone Supramolecular Polymers toward Multiresponsive Self-Assembled Nanowire System. Macromolecules, 2018, 51, 8278-8285.	4.8	13
47	Role of Specific Amine Surface Configurations for Grafted Surfaces: Implications for Nanostructured CO₂ Adsorbents. Langmuir, 2011, 27, 2861-2872.	3.5	12
48	Molecular interactions of polyimides with single-walled carbon nanotubes. Polymer Chemistry, 2013, 4, 290-295.	3.9	12
49	Synthesis and electronic properties of N-heterocyclic carbene-containing conducting polymers with coinage metals. RSC Advances, 2015, 5, 60892-60897.	3.6	12
50	Synthesis, photophysical and electrochemical properties of stilbenoid dendrimers with phenothiazine surface group. Tetrahedron Letters, 2015, 56, 321-326.	1.4	12
51	Binaphthyl-based molecular barrier materials for phosphoric acid poisoning in high-temperature proton exchange membrane fuel cells. RSC Advances, 2016, 6, 60749-60755.	3.6	12
52	Repairable photoactive polymer systems via metalâ€“terpyridine-based self-assembly. Polymer Chemistry, 2017, 8, 1923-1931.	3.9	12
53	Large-scale separation of single-walled carbon nanotubes by electronic type using click chemistry. Applied Surface Science, 2018, 429, 278-283.	6.1	12
54	Effects of Substituent on Binaphthyl Hinge-Containing Conductive Polymers. Macromolecules, 2012, 45, 9571-9578.	4.8	11

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55	Growth kinetics of plasma-polymerized films. Scientific Reports, 2015, 5, 11201.	3.3	11
56	Four-Channel Monitoring System with Surface Acoustic Wave Sensors for Detection of Chemical Warfare Agents. Journal of Nanoscience and Nanotechnology, 2020, 20, 7151-7157.	0.9	11
57	Effect of distance from discharge to substrate on plasma-polymerized polythiophenes. Surface and Coatings Technology, 2014, 259, 27-32.	4.8	10
58	Reversible Assembly of Terpyridine Incorporated Norbornene-Based Polymer via a Ring-Opening Metathesis Polymerization and Its Self-Healing Property. Polymers, 2018, 10, 1173.	4.5	10
59	Synchronous Polymerization of 3,4-Ethylenedioxythiophene and Pyrrole by Plasma Enhanced Chemical Vapor Deposition (PECVD) for Conductive Thin Film with Tunable Energy Bandgap. Macromolecular Research, 2019, 27, 243-249.	2.4	10
60	Tuning Sensory Properties of Triazole-Conjugated Spiropyrans: Metal-Ion Selectivity and Paper-Based Colorimetric Detection of Cyanide. Sensors, 2017, 17, 1816.	3.8	9
61	N-Triflyl Phosphoric Triamide: A High-Performance Purely Organic Trifurcate Quartz Crystal Microbalance Sensor for Chemical Warfare Agent. ACS Sensors, 2022, 7, 423-429.	7.8	9
62	Selective dispersion of single-walled carbon nanotubes by binaphthyl-based conjugated polymers: Integrated experimental and simulation approach. Polymer, 2016, 96, 63-69.	3.8	8
63	Binding thiourea derivatives with dimethyl methylphosphonate for sensing nerve agents. RSC Advances, 2019, 9, 10693-10701.	3.6	8
64	Microcrystal Electron Diffraction Elucidates Water-Specific Polymorphism-Induced Emission Enhancement of Bis-arylacylhydrazone. ACS Applied Materials & Interfaces, 2021, 13, 7546-7555.	8.0	8
65	Annulated Borepin-1-ol: Coordinative Control of Aromaticity and Photophysical Properties. Chemistry Letters, 2014, 43, 1432-1434.	1.3	7
66	Low-temperature plasma polymerization of dicyclopentadiene for anti-corrosion properties. Polymer, 2016, 92, 133-139.	3.8	7
67	Polyelectrolyte-derived adhesive, super-stretchable hydrogel for a stable, wireless wearable sensor. Journal of Materials Chemistry C, 2021, 9, 16778-16787.	5.5	7
68	Enhancement of Photoinduced Electron Transfer in Self-Assembled Polymer Films Using Mixed Metalâ€“Terpyridine Complexes. Macromolecules, 2015, 48, 1621-1626.	4.8	6
69	Synthesis, anti-microbial activity and molecular docking studies on triazolylcoumarin derivatives. Journal of Chemical Sciences, 2015, 127, 565-574.	1.5	6
70	Furandiacylazide: A Biomass-Derived Versatile Polymer Platform toward Photodegradable and Nonflammable Polyurethanes. ACS Applied Polymer Materials, 2021, 3, 5767-5777.	4.4	6
71	Antiproliferative and Apoptosis-Inducing Activities of 4-Isopropyl-2,6-bis(1-phenylethyl)phenol Isolated from Butanol Fraction ofCordyceps bassiana. Evidence-based Complementary and Alternative Medicine, 2015, 2015, 1-10.	1.2	5
72	Enhanced photoinduced electron transfer by multiwalled carbon nanotubes in self-assembled terpyridine polymer networks. Polymer, 2015, 69, 39-44.	3.8	5

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73	Torsionally Responsive Tropone-Fused Conjugated Polymers. Macromolecules, 2015, 48, 7015-7023.	4.8	5
74	Cooperative Binding of Metal Cations to a Spiropyranâ€Conjugated Calix[4]arene. ChemistrySelect, 2017, 2, 3527-3533.	1.5	4
75	Improved Performance of Surface Acoustic Wave Sensors by Plasma Treatments for Chemical Warfare Agents Monitoring. Journal of Nanoscience and Nanotechnology, 2020, 20, 7145-7150.	0.9	4
76	Solid-State Emissive Metallo-Supramolecular Assemblies of Quinoline-Based Acyl Hydrazone. Sensors, 2020, 20, 600.	3.8	4
77	Self-Healable and Recyclable Biomass-Derived Polyurethane Networks through Carbon Dioxide Immobilization. Polymers, 2021, 13, 4381.	4.5	4
78	Binaphthyl-incorporated Ï€-conjugated polymer/gold nanoparticle hybrids: a facile size- and shape-tailored synthesis. RSC Advances, 2016, 6, 107994-107999.	3.6	3
79	A General Approach to Synthesize Metal Nanostructures by Using Cucurbit[7]uril. Nano, 2018, 13, 1850007.	1.0	3
80	Unconventional assemblies of bisacylhydrazones: The role of water for circularly polarized luminescence. Aggregate, 2022, 3, .	9.9	3
81	Binaphthyl-containing electroactive polymer networks by ring-opening metathesis polymerization. Macromolecular Research, 2013, 21, 1159-1162.	2.4	2
82	Thiourea-Based Soft Actuators from Photo-triggered Fluoride Generation and Amplification. ACS Applied Polymer Materials, 2021, 3, 1595-1601.	4.4	2
83	Inter- and Intra-Hydrogen Bonding Strategy to Control the Fluorescence of Acylhydrazone-Based Conjugated Microporous Polymers and Their Application to Nitroaromatics Detection. Macromol, 2021, 1, 234-242.	4.4	2
84	Aqueous lubrication and wear properties of nonionic bottle-brush polymers. RSC Advances, 2022, 12, 17740-17746.	3.6	2
85	Round-patterned ZnO nanostructure coated with siloxane-based polymer for nerve agent detection. Applied Surface Science, 2018, 429, 237-243.	6.1	1
86	Additive-free photo-mediated oxidative cyclization of pyridinium acylhydrazones to 1,3,4-oxadiazoles: solid-state conversion in a microporous organic polymer and supramolecular energy-level engineering. RSC Advances, 2021, 11, 1969-1975.	3.6	1
87	Design and Synthesis of Hexafluoroisopropyl Alcohol Functionalized Polymers for Chemical Warfare Agent Detection with a Quartz Crystal Microbalance. Nanoscience and Nanotechnology Letters, 2015, 7, 1009-1014.	0.4	0
88	Synthesis of Thienotropone-Containing Conjugated Polymers and Their Acid Doping Property. Science of Advanced Materials, 2017, 9, 1373-1376.	0.7	0