

Xiaosong Wang

List of Publications by Year in descending order

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74
papers

3,186
citations

218677

26
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149698

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all docs

74
docs citations

74
times ranked

3454
citing authors

#	ARTICLE	IF	CITATIONS
1	Cylindrical Block Copolymer Micelles and Co-Micelles of Controlled Length and Architecture. <i>Science</i> , 2007, 317, 644-647.	12.6	1,025
2	Synthesis and Characterization of Organometallic Coordination Polymer Nanoshells of Prussian Blue Using Miniemulsion Periphery Polymerization (MEPP). <i>Journal of the American Chemical Society</i> , 2009, 131, 5378-5379.	13.7	150
3	Direct Synthesis of Polymer Nanotubes by Aqueous Dispersion Polymerization of a Cyclodextrin/Styrene Complex. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 16541-16545.	13.8	120
4	Redox-Mediated Synthesis and Encapsulation of Inorganic Nanoparticles in Shell-Cross-Linked Cylindrical Polyferrocenylsilane Block Copolymer Micelles. <i>Journal of the American Chemical Society</i> , 2008, 130, 12921-12930.	13.7	115
5	Metal-Containing Polymers: Building Blocks for Functional (Nano)Materials. <i>Macromolecular Rapid Communications</i> , 2010, 31, 331-350.	3.9	111
6	Polymer Assemblies with Nanostructure-Correlated Aggregation-Induced Emission. <i>Macromolecules</i> , 2017, 50, 1126-1133.	4.8	106
7	Shell-Cross-Linked Cylindrical Polyisoprene-b-Polyferrocenylsilane (PI-b-PFS) Block Copolymer Micelles: A One-Dimensional (1D) Organometallic Nanocylinders. <i>Journal of the American Chemical Society</i> , 2007, 129, 5630-5639.	13.7	105
8	Supramolecular chemistry of metal complexes in solution. <i>Chemical Communications</i> , 2013, 49, 8133.	4.1	87
9	Photoinduced Reversible Worm-to-Vesicle Transformation of Azo-Containing Block Copolymer Assemblies Prepared by Polymerization-Induced Self-Assembly. <i>Macromolecules</i> , 2018, 51, 3308-3314.	4.8	78
10	Gold nanoparticles stabilized by poly(4-vinylpyridine) grafted cellulose nanocrystals as efficient and recyclable catalysts. <i>Carbohydrate Polymers</i> , 2018, 182, 61-68.	10.2	76
11	Inorganic-Salt-Induced Morphological Transformation of Semicrystalline Micelles of PCL-b-PEO Block Copolymer in Aqueous Solution. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1909-1916.	2.2	71
12	Electrochemical Stimulated Pickering Emulsion for Recycling of Enzyme in Biocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 29203-29207.	8.0	67
13	A comparative study on grafting polymers from cellulose nanocrystals via surface-initiated atom transfer radical polymerization (ATRP) and activator re-generated by electron transfer ATRP. <i>Carbohydrate Polymers</i> , 2019, 205, 322-329.	10.2	66
14	Prussian blue coordination polymer nanobox synthesis using miniemulsion periphery polymerization (MEPP). <i>Chemical Communications</i> , 2010, 46, 4574.	4.1	64
15	Migration Insertion Polymerization (MIP) of Cyclopentadienyldicarbonyldiphenylphosphinopropyliron (FpP): A New Concept for Main Chain Metal-Containing Polymers (MCPs). <i>Journal of the American Chemical Society</i> , 2013, 135, 3399-3402.	13.7	60
16	Inverse Pickering Emulsions Stabilized by Cinnamate Modified Cellulose Nanocrystals as Templates To Prepare Silica Colloidosomes. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2583-2590.	6.7	59
17	Synthesis and Self-Assembly of Poly(ferrocenyldimethylsilane-b-dimethylaminoethyl methacrylate): A Toward Water-Soluble Cylinders with an Organometallic Core. <i>Macromolecules</i> , 2005, 38, 1928-1935.	4.8	58
18	UV-Absorbing Cellulose Nanocrystals as Functional Reinforcing Fillers in Poly(vinyl chloride) Films. <i>ACS Applied Nano Materials</i> , 2018, 1, 632-641.	5.0	56

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19	Convenient characterization of polymers grafted on cellulose nanocrystals via SI-ATRP without chain cleavage. <i>Carbohydrate Polymers</i> , 2018, 199, 603-609.	10.2	48
20	Photoluminescent properties of Prussian Blue (PB) nanoshells and polypyrrole (PPy)/PB core/shell nanoparticles prepared via miniemulsion (periphery) polymerization. <i>Chemical Communications</i> , 2011, 47, 6831.	4.1	42
21	Synthesis and Solution Self-Assembly of Coil-~Crystalline~Coil Polyferrocenylphosphine-b-polyferrocenylsilane-b-polysiloxane Triblock Copolymers. <i>Macromolecules</i> , 2002, 35, 9146-9150.	4.8	39
22	Synthesis of Prussian Blue Coordination Polymer Nanocubes via Confinement of the Polymerization Field Using Miniemulsion Periphery Polymerization (MEPP). <i>Macromolecular Rapid Communications</i> , 2010, 31, 856-860.	3.9	37
23	Recent advances in block copolymer-assisted synthesis of supramolecular inorganic/organic hybrid colloids. <i>Polymer Chemistry</i> , 2011, 2, 2741.	3.9	34
24	Synthesis of the First Organometallic Miktoarm Star Polymer. <i>Macromolecular Rapid Communications</i> , 2003, 24, 403-407.	3.9	32
25	Dual lanthanide role in the designed synthesis of hollow metal coordination (Prussian Blue) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T 5	3.6	30
26	Growth and Termination of Cylindrical Micelles via Liquid-Crystallization-Driven Self-Assembly. <i>Macromolecules</i> , 2020, 53, 8992-8999.	4.8	29
27	Cytotoxicity and photocytotoxicity of structure-defined water-soluble C₆₀ micelle supramolecular nanoparticles. <i>Nanotechnology</i> , 2011, 22, 235604.	2.6	27
28	Synthesis, characterization, micellization and metal coordination polymerization of pentacyanoferrate-coordinated block copolymers for monodispersed soluble Prussian blue nanospheres. <i>Polymer Chemistry</i> , 2012, 3, 2632.	3.9	22
29	Synthesis, Cyclization, and Migration Insertion Oligomerization of CpFe(CO) ₂ (CH ₂) ₃ PPh ₂ in Solution. <i>Organometallics</i> , 2014, 33, 531-539.	2.3	21
30	Hydration of Hydrophobic Iron-~Carbonyl Homopolymers via Water-~Carbonyl Interaction (WCI): Creation of Uniform Organometallic Aqueous Vesicles with Exceptionally High Encapsulation Capacity. <i>Macromolecules</i> , 2015, 48, 7968-7977.	4.8	21
31	Polymeric Biomaterials for Tissue Engineering Applications 2011. <i>International Journal of Polymer Science</i> , 2011, 2011, 1-2.	2.7	20
32	Iron-~Carbonyl Aqueous Vesicles (MCsomes) by Hydration of [Fe(CO){CO(CH₂)₂}₅CH₃} (Cp)(PPh₃)] (FpC6): Highly Integrated Colloids with Aggregation-Induced Self-Enhanced IR Absorption (AI-~SEIRA). <i>Chemistry - A European Journal</i> , 2015, 21, 19223-19230.	3.3	18
33	Overcoming Kinetic Trapping for Morphology Evolution during Polymerization-Induced Self-Assembly. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900202.	3.9	18
34	Self-Assembly of a Strong Polyhedral Oligomeric Silsesquioxane Core-Based Aspartate Derivative Dendrimer Supramolecular Gelator in Different Polarity Solvents. <i>Langmuir</i> , 2017, 33, 13332-13342.	3.5	17
35	Organometallic macromolecules with piano stool coordination repeating units: chain configuration and stimulated solution behaviour. <i>Chemical Communications</i> , 2014, 50, 10062-10065.	4.1	15
36	Highly-integrated, laser manipulable aqueous metal carbonyl vesicles (MCsomes) with aggregation-induced emission (AIE) and aggregation-enhanced IR absorption (AEIRA). <i>Journal of Materials Chemistry C</i> , 2016, 4, 5231-5240.	5.5	15

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37	Strong and fast-recovery organic/inorganic hybrid AuNPsâ€“supramolecular gels based on loofah-like 3D networks. <i>Soft Matter</i> , 2016, 12, 957-964.	2.7	15
38	Synthesis and migration insertion polymerization (MIP) of CpFe(CO) ₂ (CH ₂) ₆ PPh ₂ (FpC6P) for PFpC6P: macromolecule stability, degradability and redox activity. <i>Polymer Chemistry</i> , 2014, 5, 6702-6709.	3.9	12
39	Direct Synthesis of Polymer Nanotubes by Aqueous Dispersion Polymerization of a Cyclodextrin/Styrene Complex. <i>Angewandte Chemie</i> , 2017, 129, 16768-16772.	2.0	12
40	Organosilica Nanoshells with Thin Silica Cross-Linking by Miniemulsion Periphery Polymerization (MEPP). <i>Macromolecules</i> , 2010, 43, 6343-6347.	4.8	11
41	Intermolecular Interactions of CpFePPh ₃ (CO)CO(CH ₂) ₅ CH ₃ : From a Crystalline Solid to a Supramolecular â€œIron-Trussâ€ Polymer. <i>ACS Macro Letters</i> , 2014, 3, 1281-1285.	4.8	10
42	Aqueous self-assembly of hydrophobic macromolecules with adjustable rigidity of the backbone. <i>Soft Matter</i> , 2017, 13, 5130-5136.	2.7	10
43	Water-Induced Self-Assembly of Amphiphilic Discotic Molecules for Adaptive Artificial Water Channels. <i>ACS Nano</i> , 2021, 15, 14885-14890.	14.6	10
44	Synthesis of Prussian Blue Metal Coordination Polymer Nanocubes via Cyanoferrate Monomer Design. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2013, 23, 111-118.	3.7	9
45	Active Role of Water in the Hydration of Macromolecules with Ionic End Group for Hydrophobic Effect-Caused Assembly. <i>Macromolecules</i> , 2020, 53, 6842-6849.	4.8	9
46	Synthesis of Mainâ€“Chain Metal Carbonyl Organometallic Macromolecules (MCMCOMs). <i>Macromolecular Rapid Communications</i> , 2015, 36, 586-596.	3.9	8
47	End Group Functionalization of PFpP Macromolecules Via Fp Migration Insertion Reactions. <i>Macromolecular Rapid Communications</i> , 2016, 37, 246-250.	3.9	8
48	Solvent-dependent chain conformation for ring closure of metal carbonyl oligomers via migration insertion polymerization (MIP) of CpFe(CO) ₂ (CH ₂) ₆ PPh ₂ . <i>Polymer Chemistry</i> , 2016, 7, 4419-4426.	3.9	8
49	Breathing catalyst-supports: CO ₂ adjustable and magnetic recyclable â€œsmartâ€ hybrid nanoparticles. <i>RSC Advances</i> , 2016, 6, 97030-97035.	3.6	8
50	Aggregation-enhanced IR absorption (AEIRA) of molybdenum-carbonyl organometallic aqueous colloids. <i>Journal of Organometallic Chemistry</i> , 2016, 819, 109-114.	1.8	8
51	Synthesis of Airâ€“Stable Cyclopentadienyl Fe(CO) ₂ (Fp) Polymers by a Hostâ€“Guest Interaction of Cyclodextrin with Airâ€“Sensitive Fp Pendant Groups. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6246-6250.	13.8	8
52	Polymers via Reversible Additionâ€“Fragmentation Chain Transfer Polymerization with High Thiol End-Group Fidelity for Effective Grafting-To Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4713-4721.	4.6	8
53	Î±-Solvent-Mediated Double-Shell Polyethylene Glycol Brushes on Nanoparticles for Improved Stealth Properties and Delivery Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5363-5370.	4.6	8
54	Synthesis, Self-Assembly, and Applications of Polyferrocenylsilane Block Copolymers. <i>ACS Symposium Series</i> , 2006, , 274-291.	0.5	7

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55	Hydrophobic Effect of Alkyl Groups Stabilizing Self-Assembled Colloids in Water. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6280-6285.	2.6	7
56	Reversible Transformation between Azo and Azonium Bond Other than Photoisomerization of Azo Bond in Main-Chain Polyazobenzenes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3655-3661.	4.6	7
57	Ring Size-Dependent Solution Behavior of Macrocycles: Dipole–Dipole Attraction Counteracted by Excluded Volume Repulsion. <i>Macromolecules</i> , 2021, 54, 7441-7447.	4.8	6
58	Polymeric Biomaterials for Tissue Engineering Applications. <i>International Journal of Polymer Science</i> , 2010, 2010, 1-2.	2.7	5
59	The Effect of Solution Conditions on the Driving Forces for Self-Assembly of a Pyrene Molecule. <i>Chemistry - A European Journal</i> , 2017, 23, 9736-9740.	3.3	5
60	Chain-Conformation-Directed Polymerization Cyclization for Effective Synthesis of Macrocycles in Bulk. <i>Chemistry - A European Journal</i> , 2018, 24, 15380-15386.	3.3	4
61	Flexibility and Stability of Metal Coordination Macromolecules. <i>Chemistry - A European Journal</i> , 2017, 23, 8280-8285.	3.3	3
62	Synthesis and solution behaviour of metal-carbonyl amphiphiles with an Fp (CpFe(CO) ₂) junction. <i>Journal of Organometallic Chemistry</i> , 2017, 851, 40-45.	1.8	3
63	Hierarchical Self-Assembly Induced by Dilution-Enhanced Hydrophobic Hydration. <i>Chemistry - A European Journal</i> , 2018, 24, 6737-6741.	3.3	3
64	Competition between Ring-Closing Migratory Insertion Polymerization and Monomer Cyclization. <i>Organometallics</i> , 2020, 39, 2991-2997.	2.3	3
65	The Effect of Hydration and Dehydration on the Conformation, Assembling Behavior and Photoluminescence of PBLG. <i>Soft Matter</i> , 0, , .	2.7	3
66	Aromatic Embrace Motifs for Bulk Supramolecular Polymers. <i>Chemistry - A European Journal</i> , 2019, 25, 12221-12227.	3.3	2
67	Vesicular Membrane with Structured Interstitial Water. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9239-9245.	2.6	2
68	Synthesis and self-assembly of (C ₅ H ₅)Fe(CO) ₂ (Fp)-Based organometallic macromolecules. <i>Polymer</i> , 2022, 245, 124588.	3.8	2
69	Synthesis of Air-Stable Cyclopentadienyl Fe(CO) ₂ (Fp) Polymers by a Host-Guest Interaction of Cyclodextrin with Air-Sensitive Fp Pendant Groups. <i>Angewandte Chemie</i> , 2017, 129, 6342-6346.	2.0	1
70	The effect of CX (alkyl groups) on the migration insertion polymerization (MIP) of PFpCX [PFp = (PPh ₂ (CH ₂) ₃ Cp)Fe(CO) ₂]. <i>Polymer</i> , 2022, 242, 124574.	3.8	1
71	Aqueous Self-Assembly of Hydrophobic Molecules Influenced by the Molecular Geometry. <i>Journal of Physical Chemistry B</i> , 2022, , .	2.6	1
72	Water-mediated through-space-conjugation of aromatic groups for stimuli-responsive photoluminescence. <i>Giant</i> , 2020, 3, 100028.	5.1	0

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73	Synthesis of polystyrene living nanoparticles (LNPs) in water via nano-confined free radical polymerization. <i>Polymer Chemistry</i> , 2020, 11, 7349-7353.	3.9	0
74	Synthesis, Self-Assembly and Applications of Polyferrocenylsilane (PFS) Block Copolymers. , 0, , 151-168.		0