Mo-zhen Wang

List of Publications by Year
in descending order

114	2,610	186209	223716
papers	citations	28 h-index	46 g-index

114	114	114	3763
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Space-Confined Seeded Growth of Black Silver Nanostructures for Solar Steam Generation. Nano Letters, 2019, 19, 400-407.	4.5	181
2	Novel One-Step Route for Synthesizing CdS/Polystyrene Nanocomposite Hollow Spheres. Langmuir, 2004, 20, 5192-5195.	1.6	138
3	Synthesis of Cagelike Polymer Microspheres with Hollow Core/Porous Shell Structures by Self-Assembly of Latex Particles at the Emulsion Droplet Interface. Chemistry of Materials, 2005, 17, 5891-5892.	3.2	125
4	Integrated Evaporator for Efficient Solar-Driven Interfacial Steam Generation. Nano Letters, 2020, 20, 6051-6058.	4.5	121
5	Fabrication of fibrous amidoxime-functionalized mesoporous silica microsphere and its selectively adsorption property for Pb2+ in aqueous solution. Journal of Hazardous Materials, 2015, 297, 66-73.	6.5	96
6	Fabrication of raspberry SiO2/polystyrene particles and superhydrophobic particulate film with high adhesive force. Journal of Materials Chemistry, 2012, 22, 5784.	6.7	86
7	Structural Identification of Polyacrylonitrile during Thermal Treatment by Selective ¹³C Labeling and Solid-State ¹³C NMR Spectroscopy. Macromolecules, 2014, 47, 3901-3908.	2.2	69
8	Morphology and mechanical property of binary and ternary polypropylene nanocomposites with nanoclay and CaCo₃ particles. Journal of Applied Polymer Science, 2007, 106, 3409-3416.	1.3	66
9	Surface modification of poly(ethylene terephthalate) (PET) film by gamma-ray induced grafting of poly(acrylic acid) and its application in antibacterial hybrid film. Radiation Physics and Chemistry, 2011, 80, 567-572.	1.4	63
10	Preparation, characterization and aggregation behavior of amphiphilic chitosan derivative having poly (l-lactic acid) side chains. Carbohydrate Polymers, 2008, 72, 60-66.	5.1	56
11	Fabrication of High-Performance Magnetic Lysozyme-Imprinted Microsphere and Its NIR-Responsive Controlled Release Property. ACS Applied Materials & Interfaces, 2015, 7, 28606-28615.	4.0	53
12	Preparation of three-dimensional inverse opal SnO₂/graphene composite microspheres and their enhanced photocatalytic activities. Journal of Materials Chemistry A, 2015, 3, 2991-2998.	5.2	52
13	Emerging Multifunctional NIR Photothermal Therapy Systems Based on Polypyrrole Nanoparticles. Polymers, 2016, 8, 373.	2.0	46
14	Carbon-doped boron nitride nanosheets with adjustable band structure for efficient photocatalytic U(VI) reduction under visible light. Chemical Engineering Journal, 2021, 410, 128280.	6.6	46
15	Polystyrene/melamine-formaldehyde hollow microsphere composite by self-assembling of latex particles at emulsion droplet interface. Polymer, 2005, 46, 7598-7604.	1.8	44
16	Catalase-imprinted Fe3O4/Fe@fibrous SiO2/polydopamine nanoparticles: An integrated nanoplatform of magnetic targeting, magnetic resonance imaging, and dual-mode cancer therapy. Nano Research, 2017, 10, 2351-2363.	5.8	43
17	Visual dual chemodynamic/photothermal therapeutic nanoplatform based on superoxide dismutase plus Prussian blue. Nano Research, 2019, 12, 1071-1082.	5.8	40
18	Direct preparation of silica hollow spheres in a water in oil emulsion system: The effect of pH and viscosity. Journal of Non-Crystalline Solids, 2006, 352, 2230-2235.	1.5	39

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19	The Mechanism of the Formation of Multihollow Polymer Spheres through Sulfonated Polystyrene Particles. Langmuir, 2009, 25, 2729-2735.	1.6	38
20	Hybrid hollow microspheres templated from double Pickering emulsions. Chemical Communications, 2010, 46, 4318.	2.2	37
21	Inductive effect of poly(vinyl pyrrolidone) on morphology and photocatalytic performance of Bi 2 WO 6. Applied Surface Science, 2016, 368, 332-340.	3.1	35
22	Fibrous N-doped hierarchical porous carbon microspheres: Synthesis and adsorption performance. Chemical Engineering Journal, 2017, 323, 224-232.	6.6	34
23	Fabrication of macroporous polystyrene/graphene oxide composite monolith and its adsorption property for tetracycline. Chinese Chemical Letters, 2016, 27, 511-517.	4.8	33
24	Cagelike polymer microspheres with hollow core/porous shell structures. Journal of Polymer Science Part A, 2007, 45, 933-941.	2.5	32
25	Novel Walnut-like Multihollow Polymer Particles: Synthesis and Morphology Control. Langmuir, 2010, 26, 1635-1641.	1.6	31
26	The morphological control of anisotropic polystyrene/silica hybrid particles prepared by radiation miniemulsion polymerization. Chemical Communications, 2009, , 2765.	2.2	30
27	Preparation and characterization of polymer/silica nanocomposites via double in situ miniemulsion polymerization. Journal of Polymer Science Part A, 2010, 48, 3128-3134.	2.5	30
28	Double-functionalized gold nanoparticles with split aptamer for the detection of adenosine triphosphate. Talanta, 2013, 115, 506-511.	2.9	30
29	Preparation and performance of magnetic phase change microcapsules with organic-inorganic double shell. Solar Energy Materials and Solar Cells, 2022, 240, 111716.	3.0	30
30	Graft copolymers of polyurethane with various vinyl monomers via radiation-induced miniemulsion polymerization: Influential factors to grafting efficiency and particle morphology. Radiation Physics and Chemistry, 2009, 78, 112-118.	1.4	29
31	Formation of Cagelike Sulfonated Polystyrene Microspheres via Swelling-Osmosis Process and Loading of CdS Nanoparticles. Langmuir, 2013, 29, 15367-15374.	1.6	28
32	The preparation of composite microsphere with hollow core/porous shell structure by self-assembling of latex particles at emulsion droplet interface. Journal of Colloid and Interface Science, 2006, 299, 791-796.	5.0	27
33	Uniform chitosan hollow microspheres prepared with the sulfonated polystyrene particles templates. Colloid and Polymer Science, 2008, 286, 819-825.	1.0	26
34	Anionic/nonionic mixed surfactants templates preparation of hollow polymer spheres via emulsion polymerization. Journal of Polymer Science Part A, 2006, 44, 2533-2541.	2.5	25
35	The mechanism of 60Co Î³-ray radiation induced interfacial redox reaction in inverse emulsion and its application in the synthesis of polymer microcapsules. Polymer, 2007, 48, 150-157.	1.8	25
36	The preparation, drug loading and in vitro NIR photothermal-controlled release behavior of raspberry-like hollow polypyrrole microspheres. Journal of Materials Chemistry B, 2015, 3, 9186-9193.	2.9	25

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37	Facile fabrication of free-standing colloidal-crystal films by interfacial self-assembly. Journal of Colloid and Interface Science, 2011, 353, 16-21.	5.0	24
38	Preparation of core (PBA/layered silicate)â€“shell (PS) structured complex via Î³-ray radiation seeded emulsion polymerization. Materials Letters, 2006, 60, 2544-2548.	1.3	23
39	Synthesis and photocatalytic performance of recyclable core-shell mesoporous Fe3O4@Bi2WO6 nanoparticles. Materials Research Bulletin, 2019, 113, 223-230.	2.7	21
40	The Comparison of the Ringed Spherulite Morphology of PCL Blends with Poly(vinyl chloride), Poly(bisphenol A carbonate) and Poly(hydroxyether of bisphenol A). Macromolecular Chemistry and Physics, 2001, 202, 961-966.	1.1	20
41	Morphological Control of Multihollow Polymer Latex Particles through a Controlled Phase Separation in the Seeded Emulsion Polymerization. Langmuir, 2013, 29, 14787-14794.	1.6	20
42	The fabrication and corrosion resistance of benzotriazole-loaded raspberry-like hollow polymeric microspheres. Surface and Coatings Technology, 2014, 238, 15-26.	2.2	20
43	Hierarchical porous SnO 2 /reduced graphene oxide composites for high-performance lithium-ion battery anodes. Electrochimica Acta, 2016, 215, 42-49.	2.6	19
44	Ni-nanoparticle-bound boron nitride nanosheets prepared by a radiation-induced reduction-exfoliation method and their catalytic performance. Journal of Materials Chemistry A, 2020, 8, 9109-9120.	5.2	19
45	Colloidal silver deposition onto functionalized polystyrene microspheres. Polymer Chemistry, 2011, 2, 970.	1.9	18
46	Effects of concentration of nonionic surfactant and molecular weight of polymers on the morphology of anisotropic polystyrene/poly(methyl methacrylate) composite particles prepared by solvent evaporation method. Colloid and Polymer Science, 2009, 287, 819-827.	1.0	17
47	Radiation induced graft copolymerization of n-butyl acrylate onto poly(ethylene terephthalate) (PET) films and thermal properties of the obtained graft copolymer. Radiation Physics and Chemistry, 2011, 80, 632-637.	1.4	17
48	Effect of Poly(acrylic acid)-Modified Poly(ethylene terephthalate) on Improving the Integrated Mechanical Properties of Poly(ethylene terephthalate)/Elastomer Blend. Industrial & Engineering Chemistry Research, 2015, 54, 4748-4755.	1.8	17
49	Formation mechanism of 3D macroporous graphene aerogel in alcohol-water media under gamma-ray radiation. Applied Surface Science, 2018, 427, 1144-1151.	3.1	17
50	Compositional heterogeneity, thermostable, and shape memory properties of ethylene oxide-ethylene terephthalate segmented copolymer with long soft segment. Journal of Applied Polymer Science, 1998, 69, 947-955.	1.3	16
51	One-step fabrication of multihollow polystyrene particles from miniemulsion system with nonionic surfactant. Polymer, 2008, 49, 4974-4980.	1.8	14
52	A target-triggered strand displacement reaction cycle: The design and application in adenosine triphosphate sensing. Analytical Biochemistry, 2014, 446, 69-75.	1.1	14
53	Grafting of polymers from clay nanoparticles via high-dose gamma-ray irradiation. Materials Letters, 2007, 61, 3723-3727.	1.3	13
54	A novel approach for preparation of â€œcage-likeâ€•multihollow polymer microspheres through sulfonated polystyrene particles. Colloid and Polymer Science, 2012, 290, 1749-1757.	1.0	13

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55	Microencapsulation of UV-Curable Self-healing Agent for Smart Anticorrosive Coating. Chinese Journal of Chemical Physics, 2014, 27, 607-615.	0.6	13
56	In situ synthesis and self-reinforcement of polymeric composite hydrogel based on particulate macro-RAFT agents. RSC Advances, 2017, 7, 1513-1519.	1.7	13
57	Morphology control of hollow polymer latex particle preparation. Journal of Applied Polymer Science, 2005, 98, 860-863.	1.3	12
58	Monodisperse Polypyrrole Nanoparticles Prepared via Î³-Ray Radiolysis of Water: An Efficient Near-Infrared Photothermal Agent for Cancer Therapy. Particle and Particle Systems Characterization, 2017, 34, 1600430.	1.2	12
59	Self-assembly of graphene oxide nanosheets in t-butanol/water medium under gamma-ray radiation. Chinese Chemical Letters, 2018, 29, 931-934.	4.8	12
60	Formation of monodisperse poly(methyl methacrylate) particles by radiation-induced dispersion polymerization. II. Particle size and size distribution. Colloid and Polymer Science, 2002, 280, 1091-1096.	1.0	11
61	Preparation of polystyrene-encapsulated silver hollow spheres via self-assembly of latex particles at the emulsion droplet interface. Materials Letters, 2008, 62, 429-431.	1.3	11
62	The study on grafting comonomer of n-butyl acrylate and styrene onto poly(ethylene terephthalate) film by gamma-ray induced graft copolymerization. Radiation Physics and Chemistry, 2010, 79, 941-946.	1.4	11
63	Oneâ€Pot Synthesis of Colloidal Nanobowls and Hybrid Multipodâ€like Nanoparticles by Radiation Miniemulsion Polymerization. Macromolecular Rapid Communications, 2011, 32, 1615-1619.	2.0	11
64	Facile fabrication of flower-like nanocomposite microparticles via seeded miniemulsion polymerization. Polymer Chemistry, 2012, 3, 2011.	1.9	11
65	A new method to cross-link a polyplex for enhancing in vivo stability and transfection efficiency. Biomaterials Science, 2014, 2, 390-398.	2.6	11
66	One-pot synthesis of porous Au-nanoparticles@polymer/reduced graphene oxide composite microspheres by Î³-ray radiation and their application as a recyclable high-performance catalyst. RSC Advances, 2016, 6, 59684-59691.	1.7	11
67	One-step synthesis of poly(ethyleneglycol dimethacrylate)-microspheres-supported nano-Au catalyst in methanolâ€“water solution under Î³-ray radiation. RSC Advances, 2016, 6, 55878-55883.	1.7	11
68	Fabrication of inverse-opal lysozyme-imprinted polydopamine/polypyrrole microspheres with near-infrared-light-controlled release property. Journal of Colloid and Interface Science, 2019, 548, 37-47.	5.0	11
69	Flexible, high sensitive and radiation-resistant pressure-sensing hydrogel. Chinese Chemical Letters, 2022, 33, 1011-1016.	4.8	11
70	Fabrication of Superhydrophobic Three-Dimensionally Ordered Macroporous Polytetrafluoroethylene Films and Its Application. Langmuir, 2014, 30, 10804-10808.	1.6	10
71	Surface treatment of poly(ethylene terephthalate) by gamma-ray induced graft copolymerization of methyl acrylate and its toughening effect on poly(ethylene terephthalate)/elastomer blend. Radiation Physics and Chemistry, 2013, 90, 92-97.	1.4	9
72	Synthesis of Anisotropic Polymer/Inorganic Particles via Asymmetric Swellingâ€“Dissolving Process. Langmuir, 2013, 29, 1010-1016.	1.6	9

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73	Synthesis of Golf-ball-like Polystyrene Microspheres from a Pickering Emulsion Stabilized by Amphiphilic Janus Microspheres. Chemistry Letters, 2013, 42, 963-965.	0.7	9
74	The unfolding of G-quadruplexes and its adverse effect on DNAâ€"gold nanoparticles-based sensing system. Biosensors and Bioelectronics, 2014, 53, 479-485.	5.3	9
75	Chitosan-based coreâ€"shell structured particles for in vivo sustainable gene transfection. Journal of Materials Chemistry B, 2016, 4, 893-901.	2.9	9
76	Highly crosslinked poly(ethyleneglycol dimethacrylate)-based microspheres via solvothermal precipitation polymerization in alcoholâ€"water system. Polymer, 2016, 83, 214-222.	1.8	8
77	Biodegradable nano-organosilica gene carrier for high-efficiency gene transfection. Journal of Materials Chemistry B, 2020, 8, 2483-2494.	2.9	8
78	Crystallization and melting behavior of the soft and hard segments in poly(ester-ether)s. I. Ethylene oxide-ethylene terephthalate segmented copolymers. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2918-2927.	2.4	7
79	Incorporation of disodium alkyl polyoxyethylene ether sulfosuccinate inside styrene droplets: Mechanism and its application for preparation of multihollow polymer spheres. Journal of Colloid and Interface Science, 2008, 322, 231-236.	5.0	7
80	The sustained-release behavior and in vitro and in vivo transfection of pEGFP-loaded core-shell-structured chitosan-based composite particles. International Journal of Nanomedicine, 2014, 9, 4965.	3.3	7
81	pH-Responsive cagelike porous polymer microspheres prepared via consecutive RAFT polymerization induced by Î³-ray radiation. Polymer Chemistry, 2015, 6, 7717-7725.	1.9	7
82	Effect of Î³-Ray-Radiation-Modified Graphene Oxide on the Integrated Mechanical Properties of PET Blends. Industrial & Engineering Chemistry Research, 2016, 55, 8123-8132.	1.8	7
83	Gamma ray radiation effect on Bi2WO6 photocatalyst. Chinese Journal of Chemical Physics, 2018, 31, 701-706.	0.6	7
84	In-situ fabrication of porous-silica-microsphere-supported platinum nanocluster catalyst by Î³-ray radiation. Applied Surface Science, 2020, 531, 147333.	3.1	7
85	Preparation and adsorption property of novel inverse-opal hierarchical porous N-doped carbon microspheres. Chinese Chemical Letters, 2021, 32, 866-869.	4.8	7
86	Crystallization and melting behavior of the soft and hard segments in poly(ester-ether)s. II. Ethylene oxide-butylene terephthalate segmented copolymers. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 2928-2940.	2.4	6
87	Chitosan modified by Î³-ray-induced grafting of poly(tributyl-(4-vinylbenzyl)phosphonium) as a biosafe and high-efficiency gene carrier. New Journal of Chemistry, 2017, 41, 4182-4189.	1.4	6
88	Effect of carboxyl on vulcanization and mechanical properties of carboxylated acrylic rubber prepared by60Co-Î³-ray-induced polymerization. Journal of Applied Polymer Science, 2006, 102, 5587-5594.	1.3	5
89	Preparation of Monodisperse Polystyrene Particles from Emulsifier-free Miniemulsion Polymerization. Chemistry Letters, 2008, 37, 1158-1159.	0.7	5
90	Determination of Adenosine Triphosphate by a Target Inhibited Catalytic Cycle Based on a Strand Displacement Reaction. Analytical Letters, 2014, 47, 478-491.	1.0	5

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91	Construction of polyporous polymer microspheres with a tailored mesoporous wall. Polymer Chemistry, 2019, 10, 1508-1518.	1.9	5
92	Radiation Emulsion Polymerization. , 2019, , 183-205.		5
93	Preparation and properties of the self-crosslinked acrylic rubber via gamma ray initiated emulsion polymerization. Polymer Engineering and Science, 2006, 46, 1748-1753.	1.5	4
94	Synthesis of triangle hybrid particles by radiation-induced seeded emulsion polymerization based on polystyrene/SiO2 coreâ€“shell particles. Materials Letters, 2012, 79, 61-64.	1.3	4
95	One-step synthesis of self-healable hydrogels by the spontaneous phase separation of linear multi-block copolymers during the emulsion copolymerization. Chinese Chemical Letters, 2017, 28, 868-874.	4.8	4
96	Î³-Ray-Radiation-Scissioned Chitosan as a Gene Carrier and Its Improvedin vitroGene Transfection Performance. Chinese Journal of Chemical Physics, 2017, 30, 231-238.	0.6	4
97	Synthesis and Characterization of Î²â€Dâ€Coated Polystyrene Microspheres by Î³â€Ray Radiation Emulsion Polymerization. Macromolecular Rapid Communications, 2012, 33, 1945-1951.	2.0	3
98	The Molecular Imprinted Nanotrapper for Catalase: A Chemicalâ€Free Inhibition Way to Trigger Tumor Cells Apoptosis. Particle and Particle Systems Characterization, 2017, 34, 1600260.	1.2	3
99	Radiation miniemulsion polymerization system with HTPB or its derivative as the costabilizer. Colloid and Polymer Science, 2008, 286, 1039-1047.	1.0	2
100	Polymer/metal interpenetrating phase composites prepared via Î³-ray initiated in-situ emulsion polymerization. Polymer Composites, 2009, 30, 1258-1264.	2.3	2
101	Fabrication and Morphology of Spongelike Polymer Material Based on Cross-Linked Sulfonated Polystyrene Particles. Langmuir, 2012, 28, 5498-5502.	1.6	2
102	Antimicrobial Expanded Polytetrafluoroethylene Film Prepared by Î³-ray Radiation Induced Grafting of Poly(acrylic acid). Chinese Journal of Chemical Physics, 2015, 28, 107-112.	0.6	2
103	A new approach of synthesis and morphological control of poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (terephtChemistry, 2015, 106, 261-267.	1.4	2
104	Synthesis and morphology control of raspberry-like poly(ethylene terephthalate)/polyacrylonitrile microspheres. Chinese Chemical Letters, 2016, 27, 195-199.	4.8	2
105	Cagelike porous sulfonated polystyrene@polyaniline composite microspheres for high-performance supercapacitor. Journal of Materials Science, 2018, 53, 9160-9169.	1.7	2
106	Study on the morphological regulation mechanism of hollow silica microsphere prepared via emulsion droplet template. Chinese Chemical Letters, 2023, 34, 107499.	4.8	2
107	Preparation of Hollow Silica Microspheres via Poly(N-isopropylacrylamide). Chinese Journal of Chemical Physics, 2012, 25, 120-124.	0.6	1
108	The characterization of latex particles prepared by pulsed electron beam induced emulsion polymerization. Radiation Physics and Chemistry, 2012, 81, 1634-1638.	1.4	1

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109	In-situ Enhanced Toughening of Poly(ethylene terephthalate)/elastomer Blends via Gamma-Ray Radiation at Presence of Trimethylolpropane Triacrylate. Chinese Journal of Chemical Physics, 2016, 29, 703-709.	0.6	1
110	Macroporous Polytetrafluoroethylene Film with a Reusable Matrix and Its Application as the Microreactors. Macromolecular Materials and Engineering, 2016, 301, 674-681.	1.7	1
111	Polyaniline nanotubes prepared by one-step synergistic polymerization of aniline and acrylic acid. Chinese Journal of Chemical Physics, 2018, 31, 827-832.	0.6	1
112	Synthesis and Optical Properties of ZnO Nanoparticles in Submicron PS Hollow Reactors. Chinese Journal of Chemical Physics, 2012, 25, 719-724.	0.6	0
113	Radiation Preparation or Application of Graphene, Nanomaterials, Porous Polymeric Materials, and Ionic Liquids. , 2019, , 249-317.		0
114	Preparation of multi-hollow polystyrene microspheres by radiation-induced frozen emulsion polymerization. Scientia Sinica Chimica, 2018, 48, 1123-1130.	0.2	0