

Mo-zhen Wang

List of Publications by Year in descending order

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114
papers

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citations

186209

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114
all docs

114
docs citations

114
times ranked

3763
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the morphological regulation mechanism of hollow silica microsphere prepared via emulsion droplet template. Chinese Chemical Letters, 2023, 34, 107499.	4.8	2
2	Flexible, high sensitive and radiation-resistant pressure-sensing hydrogel. Chinese Chemical Letters, 2022, 33, 1011-1016.	4.8	11
3	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
4	Preparation and adsorption property of novel inverse-opal hierarchical porous N-doped carbon microspheres. Chinese Chemical Letters, 2021, 32, 866-869.	4.8	7
5	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
6	Integrated Evaporator for Efficient Solar-Driven Interfacial Steam Generation. Nano Letters, 2020, 20, 6051-6058.	4.5	121
7	In-situ fabrication of porous-silica-microsphere-supported platinum nanocluster catalyst by $\hat{\text{I}}^3$ -ray radiation. Applied Surface Science, 2020, 531, 147333.	3.1	7
8	Biodegradable nano-organosilica gene carrier for high-efficiency gene transfection. Journal of Materials Chemistry B, 2020, 8, 2483-2494.	2.9	8
9	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
10	Visual dual chemodynamic/photothermal therapeutic nanoplatform based on superoxide dismutase plus Prussian blue. Nano Research, 2019, 12, 1071-1082.	5.8	40
11	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
12	Synthesis and photocatalytic performance of recyclable core-shell mesoporous Fe ₃ O ₄ @Bi ₂ WO ₆ nanoparticles. Materials Research Bulletin, 2019, 113, 223-230.	2.7	21
13	Construction of polyporous polymer microspheres with a tailored mesoporous wall. Polymer Chemistry, 2019, 10, 1508-1518.	1.9	5
14	Space-Confined Seeded Growth of Black Silver Nanostructures for Solar Steam Generation. Nano Letters, 2019, 19, 400-407.	4.5	181
15	Radiation Emulsion Polymerization. , 2019, , 183-205.		5
16	Radiation Preparation or Application of Graphene, Nanomaterials, Porous Polymeric Materials, and Ionic Liquids. , 2019, , 249-317.		0
17	Cagelike porous sulfonated polystyrene@polyaniline composite microspheres for high-performance supercapacitor. Journal of Materials Science, 2018, 53, 9160-9169.	1.7	2
18	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

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19	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
20	Gamma ray radiation effect on Bi ₂ WO ₆ photocatalyst. Chinese Journal of Chemical Physics, 2018, 31, 701-706.	0.6	7
21	Preparation of multi-hollow polystyrene microspheres by radiation-induced frozen emulsion polymerization. Scientia Sinica Chimica, 2018, 48, 1123-1130.	0.2	0
22	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
23	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
24	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
25	Monodisperse Polypyrrole Nanoparticles Prepared via ⁶⁰ Co-Ray Radiolysis of Water: An Efficient Near-Infrared Photothermal Agent for Cancer Therapy. Particle and Particle Systems Characterization, 2017, 34, 1600430.	1.2	12
26	Catalase-imprinted Fe ₃ O ₄ /Fe@fibrous SiO ₂ /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
27	Chitosan modified by ⁶⁰ Co-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
28	Fibrous N-doped hierarchical porous carbon microspheres: Synthesis and adsorption performance. Chemical Engineering Journal, 2017, 323, 224-232.	6.6	34
29	The Molecular Imprinted Nanotrappor for Catalase: A Chemical-Free Inhibition Way to Trigger Tumor Cells Apoptosis. Particle and Particle Systems Characterization, 2017, 34, 1600260.	1.2	3
30	⁶⁰ Co-Ray-Radiation-Scissioned Chitosan as a Gene Carrier and Its Improved in vitro Gene Transfection Performance. Chinese Journal of Chemical Physics, 2017, 30, 231-238.	0.6	4
31	Emerging Multifunctional NIR Photothermal Therapy Systems Based on Polypyrrole Nanoparticles. Polymers, 2016, 8, 373.	2.0	46
32	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
33	Macroporous Polytetrafluoroethylene Film with a Reusable Matrix and Its Application as the Microreactors. Macromolecular Materials and Engineering, 2016, 301, 674-681.	1.7	1
34	Highly crosslinked poly(ethyleneglycol dimethacrylate)-based microspheres via solvothermal precipitation polymerization in alcohol-water system. Polymer, 2016, 83, 214-222.	1.8	8
35	Hierarchical porous SnO ₂ /reduced graphene oxide composites for high-performance lithium-ion battery anodes. Electrochimica Acta, 2016, 215, 42-49.	2.6	19
36	Effect of ⁶⁰ Co-Ray-Radiation-Modified Graphene Oxide on the Integrated Mechanical Properties of PET Blends. Industrial & Engineering Chemistry Research, 2016, 55, 8123-8132.	1.8	7

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37	One-pot synthesis of porous Au-nanoparticles@polymer/reduced graphene oxide composite microspheres by I^{137} -ray radiation and their application as a recyclable high-performance catalyst. RSC Advances, 2016, 6, 59684-59691.	1.7	11
38	One-step synthesis of poly(ethyleneglycol dimethacrylate)-microspheres-supported nano-Au catalyst in methanol-water solution under I^{137} -ray radiation. RSC Advances, 2016, 6, 55878-55883.	1.7	11
39	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
40	Synthesis and morphology control of raspberry-like poly(ethylene terephthalate)/polyacrylonitrile microspheres. Chinese Chemical Letters, 2016, 27, 195-199.	4.8	2
41	Fabrication of macroporous polystyrene/graphene oxide composite monolith and its adsorption property for tetracycline. Chinese Chemical Letters, 2016, 27, 511-517.	4.8	33
42	Chitosan-based core-shell structured particles for in vivo sustainable gene transfection. Journal of Materials Chemistry B, 2016, 4, 893-901.	2.9	9
43	Antimicrobial Expanded Polytetrafluoroethylene Film Prepared by I^{137} -ray Radiation Induced Grafting of Poly(acrylic acid). Chinese Journal of Chemical Physics, 2015, 28, 107-112.	0.6	2
44	Fabrication of fibrous amidoxime-functionalized mesoporous silica microsphere and its selectively adsorption property for Pb ²⁺ in aqueous solution. Journal of Hazardous Materials, 2015, 297, 66-73.	6.5	96
45	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
46	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
47	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
48	pH-Responsive cagelike porous polymer microspheres prepared via consecutive RAFT polymerization induced by I^{137} -ray radiation. Polymer Chemistry, 2015, 6, 7717-7725.	1.9	7
49	Preparation of three-dimensional inverse opal SnO ₂ /graphene composite microspheres and their enhanced photocatalytic activities. Journal of Materials Chemistry A, 2015, 3, 2991-2998.	5.2	52
50	A new approach of synthesis and morphological control of poly(ethylene terephthalate)-g-Chitosan microspheres. Journal of Materials Chemistry, 2015, 106, 261-267.	1.4	2
51	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
52	Microencapsulation of UV-Curable Self-healing Agent for Smart Anticorrosive Coating. Chinese Journal of Chemical Physics, 2014, 27, 607-615.	0.6	13
53	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
54	The unfolding of G-quadruplexes and its adverse effect on DNA-gold nanoparticles-based sensing system. Biosensors and Bioelectronics, 2014, 53, 479-485.	5.3	9

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55	A target-triggered strand displacement reaction cycle: The design and application in adenosine triphosphate sensing. <i>Analytical Biochemistry</i> , 2014, 446, 69-75.	1.1	14
56	The fabrication and corrosion resistance of benzotriazole-loaded raspberry-like hollow polymeric microspheres. <i>Surface and Coatings Technology</i> , 2014, 238, 15-26.	2.2	20
57	A new method to cross-link a polyplex for enhancing in vivo stability and transfection efficiency. <i>Biomaterials Science</i> , 2014, 2, 390-398.	2.6	11
58	Structural Identification of Polyacrylonitrile during Thermal Treatment by Selective ¹³ C Labeling and Solid-State ¹³ C NMR Spectroscopy. <i>Macromolecules</i> , 2014, 47, 3901-3908.	2.2	69
59	Fabrication of Superhydrophobic Three-Dimensionally Ordered Macroporous Polytetrafluoroethylene Films and Its Application. <i>Langmuir</i> , 2014, 30, 10804-10808.	1.6	10
60	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. <i>Radiation Physics and Chemistry</i> , 2013, 90, 92-97.	1.4	9
61	Synthesis of Anisotropic Polymer/Inorganic Particles via Asymmetric Swelling "Dissolving Process". <i>Langmuir</i> , 2013, 29, 1010-1016.	1.6	9
62	Formation of Cagelike Sulfonated Polystyrene Microspheres via Swelling-Osmosis Process and Loading of CdS Nanoparticles. <i>Langmuir</i> , 2013, 29, 15367-15374.	1.6	28
63	Morphological Control of Multihollow Polymer Latex Particles through a Controlled Phase Separation in the Seeded Emulsion Polymerization. <i>Langmuir</i> , 2013, 29, 14787-14794.	1.6	20
64	Double-functionalized gold nanoparticles with split aptamer for the detection of adenosine triphosphate. <i>Talanta</i> , 2013, 115, 506-511.	2.9	30
65	Synthesis of Golf-ball-like Polystyrene Microspheres from a Pickering Emulsion Stabilized by Amphiphilic Janus Microspheres. <i>Chemistry Letters</i> , 2013, 42, 963-965.	0.7	9
66	Synthesis and Optical Properties of ZnO Nanoparticles in Submicron PS Hollow Reactors. <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 719-724.	0.6	0
67	Preparation of Hollow Silica Microspheres via Poly(N-isopropylacrylamide). <i>Chinese Journal of Chemical Physics</i> , 2012, 25, 120-124.	0.6	1
68	Facile fabrication of flower-like nanocomposite microparticles via seeded miniemulsion polymerization. <i>Polymer Chemistry</i> , 2012, 3, 2011.	1.9	11
69	Fabrication and Morphology of Spongelike Polymer Material Based on Cross-Linked Sulfonated Polystyrene Particles. <i>Langmuir</i> , 2012, 28, 5498-5502.	1.6	2
70	The characterization of latex particles prepared by pulsed electron beam induced emulsion polymerization. <i>Radiation Physics and Chemistry</i> , 2012, 81, 1634-1638.	1.4	1
71	Synthesis and Characterization of ¹³ C-Coated Polystyrene Microspheres by ⁶⁰ Co Ray Radiation Emulsion Polymerization. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1945-1951.	2.0	3
72	A novel approach for preparation of "cage-like" multihollow polymer microspheres through sulfonated polystyrene particles. <i>Colloid and Polymer Science</i> , 2012, 290, 1749-1757.	1.0	13

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73	Fabrication of raspberry SiO ₂ /polystyrene particles and superhydrophobic particulate film with high adhesive force. <i>Journal of Materials Chemistry</i> , 2012, 22, 5784.	6.7	86
74	Synthesis of triangle hybrid particles by radiation-induced seeded emulsion polymerization based on polystyrene/SiO ₂ core-shell particles. <i>Materials Letters</i> , 2012, 79, 61-64.	1.3	4
75	Colloidal silver deposition onto functionalized polystyrene microspheres. <i>Polymer Chemistry</i> , 2011, 2, 970.	1.9	18
76	Surface modification of poly(ethylene terephthalate) (PET) film by gamma-ray induced grafting of poly(acrylic acid) and its application in antibacterial hybrid film. <i>Radiation Physics and Chemistry</i> , 2011, 80, 567-572.	1.4	63
77	One-Pot Synthesis of Colloidal Nanobowls and Hybrid Multipod-like Nanoparticles by Radiation Miniemulsion Polymerization. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1615-1619.	2.0	11
78	Facile fabrication of free-standing colloidal-crystal films by interfacial self-assembly. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 16-21.	5.0	24
79	Radiation induced graft copolymerization of n-butyl acrylate onto poly(ethylene terephthalate) (PET) films and thermal properties of the obtained graft copolymer. <i>Radiation Physics and Chemistry</i> , 2011, 80, 632-637.	1.4	17
80	The study on grafting comonomer of n-butyl acrylate and styrene onto poly(ethylene terephthalate) film by gamma-ray induced graft copolymerization. <i>Radiation Physics and Chemistry</i> , 2010, 79, 941-946.	1.4	11
81	Preparation and characterization of polymer/silica nanocomposites via double <i>in situ</i> miniemulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2010, 48, 3128-3134.	2.5	30
82	Novel Walnut-like Multihollow Polymer Particles: Synthesis and Morphology Control. <i>Langmuir</i> , 2010, 26, 1635-1641.	1.6	31
83	Hybrid hollow microspheres templated from double Pickering emulsions. <i>Chemical Communications</i> , 2010, 46, 4318.	2.2	37
84	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. <i>Colloid and Polymer Science</i> , 2009, 287, 819-827.	1.0	17
85	Polymer/metal interpenetrating phase composites prepared via γ -ray initiated in-situ emulsion polymerization. <i>Polymer Composites</i> , 2009, 30, 1258-1264.	2.3	2
86	Graft copolymers of polyurethane with various vinyl monomers via radiation-induced miniemulsion polymerization: Influential factors to grafting efficiency and particle morphology. <i>Radiation Physics and Chemistry</i> , 2009, 78, 112-118.	1.4	29
87	The Mechanism of the Formation of Multihollow Polymer Spheres through Sulfonated Polystyrene Particles. <i>Langmuir</i> , 2009, 25, 2729-2735.	1.6	38
88	The morphological control of anisotropic polystyrene/silica hybrid particles prepared by radiation miniemulsion polymerization. <i>Chemical Communications</i> , 2009, , 2765.	2.2	30
89	One-step fabrication of multihollow polystyrene particles from miniemulsion system with nonionic surfactant. <i>Polymer</i> , 2008, 49, 4974-4980.	1.8	14
90	Uniform chitosan hollow microspheres prepared with the sulfonated polystyrene particles templates. <i>Colloid and Polymer Science</i> , 2008, 286, 819-825.	1.0	26

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91	Radiation miniemulsion polymerization system with HTPB or its derivative as the costabilizer. <i>Colloid and Polymer Science</i> , 2008, 286, 1039-1047.	1.0	2
92	Incorporation of disodium alkyl polyoxyethylene ether sulfosuccinate inside styrene droplets: Mechanism and its application for preparation of multihollow polymer spheres. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 231-236.	5.0	7
93	Preparation, characterization and aggregation behavior of amphiphilic chitosan derivative having poly (l-lactic acid) side chains. <i>Carbohydrate Polymers</i> , 2008, 72, 60-66.	5.1	56
94	Preparation of polystyrene-encapsulated silver hollow spheres via self-assembly of latex particles at the emulsion droplet interface. <i>Materials Letters</i> , 2008, 62, 429-431.	1.3	11
95	Preparation of Monodisperse Polystyrene Particles from Emulsifier-free Miniemulsion Polymerization. <i>Chemistry Letters</i> , 2008, 37, 1158-1159.	0.7	5
96	Morphology and mechanical property of binary and ternary polypropylene nanocomposites with nanoclay and CaCo ₃ particles. <i>Journal of Applied Polymer Science</i> , 2007, 106, 3409-3416.	1.3	66
97	The mechanism of ⁶⁰ Co γ -ray radiation induced interfacial redox reaction in inverse emulsion and its application in the synthesis of polymer microcapsules. <i>Polymer</i> , 2007, 48, 150-157.	1.8	25
98	Cagelike polymer microspheres with hollow core/porous shell structures. <i>Journal of Polymer Science Part A</i> , 2007, 45, 933-941.	2.5	32
99	Grafting of polymers from clay nanoparticles via high-dose gamma-ray irradiation. <i>Materials Letters</i> , 2007, 61, 3723-3727.	1.3	13
100	Direct preparation of silica hollow spheres in a water in oil emulsion system: The effect of pH and viscosity. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 2230-2235.	1.5	39
101	Preparation and properties of the self-crosslinked acrylic rubber via gamma ray initiated emulsion polymerization. <i>Polymer Engineering and Science</i> , 2006, 46, 1748-1753.	1.5	4
102	Anionic/nonionic mixed surfactants templates preparation of hollow polymer spheres via emulsion polymerization. <i>Journal of Polymer Science Part A</i> , 2006, 44, 2533-2541.	2.5	25
103	The preparation of composite microsphere with hollow core/porous shell structure by self-assembling of latex particles at emulsion droplet interface. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 791-796.	5.0	27
104	Preparation of core (PBA/layered silicate)@shell (PS) structured complex via γ -ray radiation seeded emulsion polymerization. <i>Materials Letters</i> , 2006, 60, 2544-2548.	1.3	23
105	Effect of carboxyl on vulcanization and mechanical properties of carboxylated acrylic rubber prepared by ⁶⁰ Co- γ -ray-induced polymerization. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5587-5594.	1.3	5
106	Polystyrene/melamine-formaldehyde hollow microsphere composite by self-assembling of latex particles at emulsion droplet interface. <i>Polymer</i> , 2005, 46, 7598-7604.	1.8	44
107	Morphology control of hollow polymer latex particle preparation. <i>Journal of Applied Polymer Science</i> , 2005, 98, 860-863.	1.3	12
108	Synthesis of Cagelike Polymer Microspheres with Hollow Core/Porous Shell Structures by Self-Assembly of Latex Particles at the Emulsion Droplet Interface. <i>Chemistry of Materials</i> , 2005, 17, 5891-5892.	3.2	125

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109	Novel One-Step Route for Synthesizing CdS/Polystyrene Nanocomposite Hollow Spheres. <i>Langmuir</i> , 2004, 20, 5192-5195.	1.6	138
110	Formation of monodisperse poly(methyl methacrylate) particles by radiation-induced dispersion polymerization. II. Particle size and size distribution. <i>Colloid and Polymer Science</i> , 2002, 280, 1091-1096.	1.0	11
111	The Comparison of the Ringed Spherulite Morphology of PCL Blends with Poly(vinyl chloride), Poly(bisphenol A carbonate) and Poly(hydroxyether of bisphenol A). <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 961-966.	1.1	20
112	Crystallization and melting behavior of the soft and hard segments in poly(ester-ether)s. I. Ethylene oxide-ethylene terephthalate segmented copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2918-2927.	2.4	7
113	Crystallization and melting behavior of the soft and hard segments in poly(ester-ether)s. II. Ethylene oxide-butylene terephthalate segmented copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1999, 37, 2928-2940.	2.4	6
114	Compositional heterogeneity, thermostable, and shape memory properties of ethylene oxide-ethylene terephthalate segmented copolymer with long soft segment. <i>Journal of Applied Polymer Science</i> , 1998, 69, 947-955.	1.3	16