

Manouchehr Vossoughi

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,819
citations

109321

35
h-index

138484

58
g-index

101
all docs

101
docs citations

101
times ranked

5177
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A new approach for simultaneously improved osseointegration and antibacterial activity by electrochemical deposition of graphene nanolayers over titania nanotubes. <i>Applied Surface Science</i> , 2022, 580, 152263. | 6.1 | 16 |
| 2 | Design and fabrication of an electrochemical α -based nanofibrous immunosensor for detection of prostate cancer biomarker, $\langle\text{sc}\rangle$ PSMA $\langle/\text{sc}\rangle$. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1967-1977. | 3.2 | 10 |
| 3 | Photothermal properties of two-dimensional molybdenum disulfide (MoS ₂) with nanoflower and nanosheet morphology. <i>Materials Research Bulletin</i> , 2022, 152, 111837. | 5.2 | 16 |
| 4 | Green synthesis of PEG-coated MIL-100(Fe) for controlled release of dacarbazine and its anticancer potential against human melanoma cells. <i>International Journal of Pharmaceutics</i> , 2022, 618, 121647. | 5.2 | 32 |
| 5 | Unraveling Cancer Metastatic Cascade Using Microfluidics-based Technologies. <i>Biophysical Reviews</i> , 2022, 14, 517-543. | 3.2 | 5 |
| 6 | In-situ crosslinking of electrospun gelatin-carbodiimide nanofibers: fabrication, characterization, and modeling of solution parameters. <i>Chemical Engineering Communications</i> , 2021, 208, 976-992. | 2.6 | 13 |
| 7 | Hybrid silk fibroin α gelatin nanofibrous sheet for drug delivery and regenerative medicine: In α vitro characterization and controlled release of simvastatin/protein. <i>Polymers for Advanced Technologies</i> , 2021, 32, 1333-1344. | 3.2 | 9 |
| 8 | Fabrication and evaluation of chitosan/gelatin/PVA hydrogel incorporating honey for wound healing applications: An in vitro, in vivo study. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120068. | 5.2 | 99 |
| 9 | Nanofibrillated chitosan coated highly ordered titania nanotubes array/graphene nanocomposite with improved biological characters. <i>Carbohydrate Polymers</i> , 2021, 254, 117465. | 10.2 | 20 |
| 10 | Green Electrospun Membranes Based on Chitosan/Amino-Functionalized Nanoclay Composite Fibers for Cationic Dye Removal: Synthesis and Kinetic Studies. <i>ACS Omega</i> , 2021, 6, 10816-10827. | 3.5 | 24 |
| 11 | A new insight to deformability correlation of circulating tumor cells with metastatic behavior by application of a new deformability-based microfluidic chip. <i>Analytica Chimica Acta</i> , 2021, 1186, 339115. | 5.4 | 12 |
| 12 | Enhanced decolorization of rhodamine B solution through simultaneous photocatalysis and persulfate activation over Fe/C ₃ N ₄ photocatalyst. <i>Chemical Engineering Research and Design</i> , 2020, 153, 709-720. | 5.6 | 60 |
| 13 | Enzymatic and soil burial degradation of corn starch/glycerol/sodium montmorillonite nanocomposites. <i>Polymers From Renewable Resources</i> , 2020, 11, 15-29. | 1.3 | 12 |
| 14 | A porous hydrogel-electrospun composite scaffold made of oxidized alginate/gelatin/silk fibroin for tissue engineering application. <i>Carbohydrate Polymers</i> , 2020, 245, 116465. | 10.2 | 46 |
| 15 | Examination of chondroitinase ABC I immobilization onto dextran-coated Fe ₃ O ₄ nanoparticles and its in-vitro release. <i>Journal of Biotechnology</i> , 2020, 309, 131-141. | 3.8 | 9 |
| 16 | Ag-doped magnetic metal organic framework as a novel nanostructured material for highly efficient antibacterial activity. <i>Environmental Research</i> , 2020, 188, 109555. | 7.5 | 50 |
| 17 | In-situ formation and entrapment of Ag/AgCl photocatalyst inside cross-linked carboxymethyl cellulose beads: A novel photoactive hydrogel for visible-light-induced photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 398, 112559. | 3.9 | 36 |
| 18 | Carbon Nanotube Modified Microelectrode Array for Neural Interface. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 582713. | 4.1 | 25 |

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|----|---|------|-----------|
| 19 | Synthesis of magnetic metal-organic framework nanocomposite (ZIF-8@SiO ₂ @MnFe ₂ O ₄) as a novel adsorbent for selective dye removal from multicomponent systems. <i>Microporous and Mesoporous Materials</i> , 2019, 273, 177-188. | 4.4 | 135 |
| 20 | Magnetite nanoparticle as a support for stabilization of chondroitinase ABCI. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 2721-2728. | 2.8 | 9 |
| 21 | <p>Doxorubicin/Cisplatin-Loaded Superparamagnetic Nanoparticles As A Stimuli-Responsive Co-Delivery System For Chemo-Photothermal Therapy</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8769-8786. | 6.7 | 36 |
| 22 | Magnetolectric nanocomposite scaffold for high yield differentiation of mesenchymal stem cells to neural-like cells. <i>Journal of Cellular Physiology</i> , 2019, 234, 13617-13628. | 4.1 | 37 |
| 23 | Survivability and oxidative stability of co-microencapsulated L. Plantarum PTCC 1058 and DHA as a juice carrier. <i>Food Bioscience</i> , 2019, 32, 100460. | 4.4 | 7 |
| 24 | Size and Geometry of Multielectrode Arrays Determine the Efficiency of Electrical Interaction With Neurons Through Double-Layer Capacitance. <i>IEEE Sensors Journal</i> , 2019, 19, 2829-2836. | 4.7 | 3 |
| 25 | Different types of electrospun nanofibers and their effect on microfluidic-based immunoassay. <i>Polymers for Advanced Technologies</i> , 2019, 30, 973-982. | 3.2 | 15 |
| 26 | Fabrication of hierarchically porous silk fibroin-bioactive glass composite scaffold via indirect 3D printing: Effect of particle size on physico-mechanical properties and in vitro cellular behavior. <i>Materials Science and Engineering C</i> , 2019, 103, 109688. | 7.3 | 40 |
| 27 | Application of nano-structured materials in anaerobic digestion: Current status and perspectives. <i>Chemosphere</i> , 2019, 229, 188-199. | 8.2 | 95 |
| 28 | Synthesis of porous TiO ₂ /ZrO ₂ photocatalyst derived from zirconium metal organic framework for degradation of organic pollutants under visible light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103096. | 6.7 | 93 |
| 29 | A comparative study of wound dressings loaded with silver sulfadiazine and silver nanoparticles: In vitro and in vivo evaluation. <i>International Journal of Pharmaceutics</i> , 2019, 564, 350-358. | 5.2 | 60 |
| 30 | Gold-Plated Electrode with High Scratch Strength for Electrophysiological Recordings. <i>Scientific Reports</i> , 2019, 9, 2985. | 3.3 | 27 |
| 31 | Soluble expression of IGF1 fused to DsbA in SHuffle, T7 strain: optimization of expression and purification by Box-Behnken design. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 3393-3406. | 3.6 | 18 |
| 32 | Evaluation of cellular attachment and proliferation on different surface charged functional cellulose electrospun nanofibers. <i>Carbohydrate Polymers</i> , 2019, 207, 796-805. | 10.2 | 54 |
| 33 | Activated carbon/metal-organic framework nanocomposite: Preparation and photocatalytic dye degradation mathematical modeling from wastewater by least squares support vector machine. <i>Journal of Environmental Management</i> , 2019, 233, 660-672. | 7.8 | 115 |
| 34 | Clay-based electrospun nanofibrous membranes for colored wastewater treatment. <i>Applied Clay Science</i> , 2019, 168, 77-86. | 5.2 | 105 |
| 35 | Efficient dye removal from aqueous solution by high-performance electrospun nanofibrous membranes through incorporation of SiO ₂ nanoparticles. <i>Journal of Cleaner Production</i> , 2018, 183, 1197-1206. | 9.3 | 121 |
| 36 | Label-free and simple detection of endotoxins using a sensitive LSPR biosensor based on silver nanocolumns. <i>Analytical Biochemistry</i> , 2018, 548, 96-101. | 2.4 | 36 |

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|----|---|------|-----------|
| 37 | Accelerated full-thickness wound healing via sustained bFGF delivery based on a PVA/chitosan/gelatin hydrogel incorporating PCL microspheres. <i>International Journal of Pharmaceutics</i> , 2018, 537, 278-289. | 5.2 | 93 |
| 38 | Electrospun polyethersulfone nanofibrous membrane as novel platform for protein immobilization in microfluidic systems. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018, 106, 1108-1120. | 3.4 | 17 |
| 39 | Co-microencapsulation of <i>Lactobacillus plantarum</i> and DHA fatty acid in alginate-pectin-gelatin biocomposites. <i>Carbohydrate Polymers</i> , 2018, 199, 266-275. | 10.2 | 91 |
| 40 | Quantitative Proteomic Analysis of Cellular Responses to a Designed Amino Acid Feed in a Monoclonal Antibody Producing Chinese Hamster Ovary Cell Line. <i>Iranian Biomedical Journal</i> , 2018, 22, 385-393. | 0.7 | 6 |
| 41 | Individual and interaction effects of operating parameters on the photocatalytic degradation under visible light illumination: Response surface methodological approach. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1228-1235. | 1.7 | 22 |
| 42 | Synthesis of amine-modified zeolitic imidazolate framework-8, ultrasound-assisted dye removal and modeling. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 550-564. | 8.2 | 112 |
| 43 | The use of halophytic plants for salt phytoremediation in constructed wetlands. <i>International Journal of Phytoremediation</i> , 2017, 19, 643-650. | 3.1 | 36 |
| 44 | Synthesis of metal-organic framework hybrid nanocomposites based on GO and CNT with high adsorption capacity for dye removal. <i>Chemical Engineering Journal</i> , 2017, 326, 1145-1158. | 12.7 | 494 |
| 45 | Hybrid Magnetic-DNA Directed Immobilisation Approach for Efficient Protein Capture and Detection on Microfluidic Platforms. <i>Scientific Reports</i> , 2017, 7, 194. | 3.3 | 14 |
| 46 | Effective surface modification of MnFe ₂ O ₄ @SiO ₂ @PMIDA magnetic nanoparticles for rapid and high-density antibody immobilization. <i>Applied Surface Science</i> , 2017, 426, 1023-1029. | 6.1 | 27 |
| 47 | A Biomimetic Heparinized Composite Silk-Based Vascular Scaffold with sustained Antithrombogenicity. <i>Scientific Reports</i> , 2017, 7, 4455. | 3.3 | 46 |
| 48 | Preparation of electrospun affinity membrane and cross flow system for dynamic removal of anionic dye from colored wastewater. <i>Fibers and Polymers</i> , 2017, 18, 2387-2399. | 2.1 | 18 |
| 49 | Influence of Global and Local Membrane Curvature on Mechanosensitive Ion Channels: A Finite Element Approach. <i>Membranes</i> , 2016, 6, 14. | 3.0 | 58 |
| 50 | Evaluation of trichloroethylene degradation by starch supported Fe/Ni nanoparticles via response surface methodology. <i>Water Science and Technology</i> , 2016, 73, 935-946. | 2.5 | 4 |
| 51 | Ethylene glycol biodegradation in microbial fuel cell. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2016, 38, 1096-1102. | 2.3 | 6 |
| 52 | Dual improvement of DNA-directed antibody immobilization utilizing magnetic fishing and a polyamine coated surface. <i>RSC Advances</i> , 2016, 6, 111210-111216. | 3.6 | 7 |
| 53 | A new bifunctional hybrid nanostructure as an active platform for photothermal therapy and MR imaging. <i>Scientific Reports</i> , 2016, 6, 27847. | 3.3 | 20 |
| 54 | Antimicrobial Wound Dressing Containing Silver Sulfadiazine With High Biocompatibility: In Vitro Study. <i>Artificial Organs</i> , 2016, 40, 765-773. | 1.9 | 55 |

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|----|--|------|-----------|
| 55 | Experimental study and thermodynamic modeling for determining the effect of non-polar solvent (hexane)/polar solvent (methanol) ratio and moisture content on the lipid extraction efficiency from <i>Chlorella vulgaris</i> . <i>Bioresource Technology</i> , 2016, 201, 304-311. | 9.6 | 22 |
| 56 | Efficient protein immobilization on polyethersulfone electrospun nanofibrous membrane via covalent binding for biosensing applications. <i>Materials Science and Engineering C</i> , 2016, 58, 586-594. | 7.3 | 44 |
| 57 | Designed Amino Acid Feed in Improvement of Production and Quality Targets of a Therapeutic Monoclonal Antibody. <i>PLoS ONE</i> , 2015, 10, e0140597. | 2.5 | 53 |
| 58 | Prediction of liquid-liquid equilibrium behavior for aliphatic+aromatic+ionic liquid using two different neural network-based models. <i>Fluid Phase Equilibria</i> , 2015, 394, 140-147. | 2.5 | 7 |
| 59 | Effect of various carbon sources on biomass and lipid production of <i>Chlorella vulgaris</i> during nutrient sufficient and nitrogen starvation conditions. <i>Bioresource Technology</i> , 2015, 180, 311-317. | 9.6 | 84 |
| 60 | <i>E. coli</i> inactivation by visible light irradiation using a Fe-Cd/TiO ₂ photocatalyst: Statistical analysis and optimization of operating parameters. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 441-447. | 20.2 | 43 |
| 61 | Experimental Investigation of Nano-Biomaterial Applications for Heavy Oil Recovery in Shaly Porous Models: A Pore-Level Study. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2015, 137, . | 2.3 | 44 |
| 62 | Photocatalytic removal of 2-nitrophenol using silver and sulfur co-doped TiO ₂ under natural solar light. <i>Water Science and Technology</i> , 2015, 72, 339-346. | 2.5 | 17 |
| 63 | Optimized coupling of an intermittent DC electric field with a membrane bioreactor for enhanced effluent quality and hindered membrane fouling. <i>Separation and Purification Technology</i> , 2015, 152, 7-13. | 7.9 | 65 |
| 64 | The role of co-solvents in improving the direct transesterification of wet microalgal biomass under supercritical condition. <i>Bioresource Technology</i> , 2015, 193, 90-96. | 9.6 | 34 |
| 65 | Paclitaxel/ β -CD-g-PG inclusion complex: An insight into complexation thermodynamics and guest solubility. <i>Journal of Molecular Liquids</i> , 2015, 208, 145-150. | 4.9 | 19 |
| 66 | Experimental study and thermodynamic modeling for purification of extracted algal lipids using an organic/aqueous two-phase system. <i>RSC Advances</i> , 2015, 5, 1153-1160. | 3.6 | 10 |
| 67 | Photocatalytic degradation of dibenzothiophene using La/PEG-modified TiO ₂ under visible light irradiation. <i>Research on Chemical Intermediates</i> , 2015, 41, 4151-4167. | 2.7 | 39 |
| 68 | The effect of local bending on gating of MscL using a representative volume element and finite element simulation. <i>Channels</i> , 2014, 8, 344-349. | 2.8 | 19 |
| 69 | An efficient approach to cathode operational parameters optimization for microbial fuel cell using response surface methodology. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 33. | 3.0 | 17 |
| 70 | Effects of electrophoretic deposition parameters on the photocatalytic activity of TiO ₂ films: Optimization by response surface methodology. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 452, 1-8. | 4.7 | 39 |
| 71 | In vitro biocompatibility evaluations of hyperbranched polyglycerol hybrid nanostructure as a candidate for nanomedicine applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 499-506. | 3.6 | 35 |
| 72 | Novel Approach for Liquid-Liquid Phase Equilibrium of Biodiesel (Canola and Sunflower) + Glycerol + Methanol. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 855-864. | 3.7 | 9 |

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|----|--|-----|-----------|
| 73 | Optimization of culture medium and modeling of curdlan production from <i>Paenibacillus polymyxa</i> by RSM and ANN. <i>International Journal of Biological Macromolecules</i> , 2014, 70, 463-473. | 7.5 | 70 |
| 74 | Biodegradability of oily wastewater using rotating biological contactor combined with an external membrane. <i>Journal of Environmental Health Science & Engineering</i> , 2014, 12, 117. | 3.0 | 13 |
| 75 | Enhancement of Efficient Ag ₂ S/TiO ₂ Nanophotocatalyst for Photocatalytic Degradation under Visible Light. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 9578-9586. | 3.7 | 33 |
| 76 | HRP-dendron nanoparticles: The efficient biocatalyst for enzymatic polymerization of poly(2,5-dimethoxyaniline). <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2013, 90, 139-143. | 1.8 | 5 |
| 77 | Tissue growth into three-dimensional composite scaffolds with controlled microfeatures and nanotopographical surfaces. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 2796-2807. | 4.0 | 44 |
| 78 | Two Nanostructured Polymers: Polyaniline Nanofibers and New Linear-dendritic Matrix of Poly(citric) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 International Journal of Polymeric Materials and Polymeric Biomaterials, 2013, 62, 377-383. | 3.4 | 8 |
| 79 | Magnetic labelled HRP-polymer nanoparticles: A recyclable nanobiocatalyst. <i>Journal of the Serbian Chemical Society</i> , 2013, 78, 921-931. | 0.8 | 2 |
| 80 | Immobilization of α -Chymotrypsin on the Surface of Magnetic/Gold Core/Shell Nanoparticles. <i>Journal of Nanotechnology</i> , 2013, 2013, 1-7. | 3.4 | 2 |
| 81 | Monodispersed Polymeric Nanoparticles Fabrication by Electrospray Atomization. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2012, 61, 611-626. | 3.4 | 8 |
| 82 | Liquid-liquid equilibrium (LLE) data for ternary mixtures of {aliphatic+p-xylene+[EMpy][ESO4]} at T=313.15K. <i>Fluid Phase Equilibria</i> , 2012, 332, 48-54. | 2.5 | 14 |
| 83 | Estimation of Biodiesel Physical Properties Using Local Composition Based Models. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 13518-13526. | 3.7 | 7 |
| 84 | Nano reengineering of horseradish peroxidase with dendritic macromolecules for stability enhancement. <i>Enzyme and Microbial Technology</i> , 2012, 50, 10-16. | 3.2 | 16 |
| 85 | Design and Synthesis of Novel Polyglycerol Hybrid Nanomaterials for Potential Applications in Drug Delivery Systems. <i>Macromolecular Bioscience</i> , 2011, 11, 383-390. | 4.1 | 40 |
| 86 | Modeling of Osmotic Pressure of Aqueous Poly(Ethylene Glycol) Solutions Using the Artificial Neural Network and Free Volume Flory Huggins Model. <i>Journal of Dispersion Science and Technology</i> , 2011, 32, 1054-1059. | 2.4 | 1 |
| 87 | Poly(citric acid)-block-poly(ethylene glycol) copolymers—new biocompatible hybrid materials for nanomedicine. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2010, 6, 556-562. | 3.3 | 85 |
| 88 | Synthesis of gold nanoparticle necklaces using linear dendritic copolymers. <i>European Polymer Journal</i> , 2010, 46, 165-170. | 5.4 | 26 |
| 89 | NOVEL METHOD FOR CANCER CELL APOPTOSIS BY LOCALIZED UV LIGHT WITH GOLD NANOSTRUCTURES: A THEORETICAL INVESTIGATION. <i>Nano</i> , 2010, 05, 325-332. | 1.0 | 4 |
| 90 | Folate-Receptor-Targeted Delivery of Doxorubicin Using Polyethylene Glycol-Functionalized Gold Nanoparticles. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 1958-1963. | 3.7 | 67 |

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|-----|---|------|-----------|
| 91 | A New Hydration Model in Correlating the Mean Ionic Activity Coefficient and Density of Aqueous Electrolyte Solutions. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 641-649. | 2.4 | 2 |
| 92 | Prediction of the Selectivity Coefficient of Ionic Liquids in Liquid-Liquid Equilibrium Systems Using Artificial Neural Network and Excess Gibbs Free Energy Models. <i>Particulate Science and Technology</i> , 2010, 28, 379-391. | 2.1 | 9 |
| 93 | Liquid-liquid phase equilibrium of $MgSO_4$ and PEG1500 aqueous two-phase system. <i>Physics and Chemistry of Liquids</i> , 2010, 48, 764-772. | 1.2 | 6 |
| 94 | Study of phase behaviour for the aqueous two-phase polymer-polymer systems using the modified UNIQUAC-NRF model. <i>Physics and Chemistry of Liquids</i> , 2009, 47, 148-159. | 1.2 | 0 |
| 95 | Extension of the Wilson-NRF Gibbs Energy Model in Correlating Vapor-Liquid and Liquid-Liquid Phase Behavior of Polymer-Polymer Aqueous Two-Phase Systems. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 534-539. | 2.4 | 3 |
| 96 | Self-Assembly of Tryptophan-Capped Gold Nanoparticles onto DNA Network Template. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 255-259. | 2.4 | 3 |
| 97 | Bio-oxidation of ferrous ions by <i>Acidithiobacillus ferrooxidans</i> in a monolithic bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 504-510. | 3.2 | 15 |
| 98 | A New Gibbs Energy Model for Obtaining Thermophysical Properties of Aqueous Electrolyte Solutions. <i>Journal of Solution Chemistry</i> , 2009, 38, 171-186. | 1.2 | 3 |
| 99 | Photocatalytic degradation of furfural by titania nanoparticles in a floating-bed photoreactor. <i>Chemical Engineering Journal</i> , 2009, 146, 79-85. | 12.7 | 92 |
| 100 | Bioconjugation of Interferon-alpha Molecules to Lysine-Capped Gold Nanoparticles for Further Drug Delivery Applications. <i>Journal of Dispersion Science and Technology</i> , 2008, 29, 1062-1065. | 2.4 | 11 |
| 101 | Simultaneously Synthesis and Encapsulation of Metallic Nanoparticles Using Linear-Dendritic Block Copolymers of Poly(ethylene glycol)-Poly(citric acid). <i>Key Engineering Materials</i> , 0, 478, 7-12. | 0.4 | 4 |