List of Publications by Year in descending order

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Version: 2024-02-01



ΥΠΕ ΠΗΝ ΚΑΝΟ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | DC-Dielectrophoretic separation of biological cells by size. Biomedical Microdevices, 2008, 10, 243-249. | 2.8 | 243 |
| 2 | Two dimensional atomically thin MoS ₂ nanosheets and their sensing applications. Nanoscale, 2015, 7, 19358-19376. | 5.6 | 217 |
| 3 | Paper-Based Microfluidic Electrochemical Immunodevice Integrated with Nanobioprobes onto Graphene Film for Ultrasensitive Multiplexed Detection of Cancer Biomarkers. Analytical Chemistry, 2013, 85, 8661-8668. | 6.5 | 211 |
| 4 | Simple surface engineering of polydimethylsiloxane with polydopamine for stabilized mesenchymal stem cell adhesion and multipotency. Scientific Reports, 2016, 5, 18162. | 3.3 | 200 |
| 5 | Continuous separation of microparticles by size with Direct current-dielectrophoresis. Electrophoresis, 2006, 27, 694-702. | 2.4 | 181 |
| 6 | Multi-bioresponsive silk fibroin-based nanoparticles with on-demand cytoplasmic drug release capacity for CD44-targeted alleviation of ulcerative colitis. Biomaterials, 2019, 212, 39-54. | 11.4 | 181 |
| 7 | Surface Chemical Modification of Poly(dimethylsiloxane) for the Enhanced Adhesion and Proliferation of Mesenchymal Stem Cells. ACS Applied Materials & Interfaces, 2013, 5, 9777-9784. | 8.0 | 178 |
| 8 | A paper-based microfluidic electrochemical immunodevice integrated with amplification-by-polymerization for the ultrasensitive multiplexed detection of cancer biomarkers. Biosensors and Bioelectronics, 2014, 52, 180-187. | 10.1 | 175 |
| 9 | Combination Therapy for Ulcerative Colitis: Orally Targeted Nanoparticles Prevent Mucosal Damage and Relieve Inflammation. Theranostics, 2016, 6, 2250-2266. | 10.0 | 174 |
| 10 | Electrokinetic motion of particles and cells in microchannels. Microfluidics and Nanofluidics, 2009, 6, 431-460. | 2.2 | 171 |
| 11 | Dynamic aspects of electroosmotic flow in a cylindrical microcapillary. International Journal of Engineering Science, 2002, 40, 2203-2221. | 5.0 | 163 |
| 12 | Electroosmotic Flow in a Capillary Annulus with High Zeta Potentials. Journal of Colloid and Interface Science, 2002, 253, 285-294. | 9.4 | 155 |
| 13 | Near-Infrared Squaraine Dye Encapsulated Micelles for <i>in Vivo</i> Fluorescence and Photoacoustic Bimodal Imaging. ACS Nano, 2015, 9, 5695-5704. | 14.6 | 145 |
| 14 | Orally Targeted Delivery of Tripeptide KPV via Hyaluronic Acid-Functionalized Nanoparticles Efficiently Alleviates Ulcerative Colitis. Molecular Therapy, 2017, 25, 1628-1640. | 8.2 | 138 |
| 15 | Nano metal–organic framework (NMOF)-based strategies for multiplexed microRNA detection in solution and living cancer cells. Nanoscale, 2015, 7, 1753-1759. | 5.6 | 129 |
| 16 | Glutathione- and pH-responsive nonporous silica prodrug nanoparticles for controlled release and cancer therapy. Nanoscale, 2015, 7, 5859-5868. | 5.6 | 124 |
| 17 | Catalytically Active CoFe ₂ O ₄ Nanoflowers for Augmented Sonodynamic and Chemodynamic Combination Therapy with Elicitation of Robust Immune Response. ACS Nano, 2021, 15, 11953-11969. | 14.6 | 114 |
| 18 | Continuous particle separation with localized AC-dielectrophoresis using embedded electrodes and an insulating hurdle. Electrochimica Acta, 2009, 54, 1715-1720. | 5.2 | 113 |

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|----|--|------|-----------|
| 19 | Highly Specific and Ultrasensitive Graphene-Enhanced Electrochemical Detection of Low-Abundance Tumor Cells Using Silica Nanoparticles Coated with Antibody-Conjugated Quantum Dots. Analytical Chemistry, 2013, 85, 3166-3173. | 6.5 | 108 |
| 20 | Effects of dc-dielectrophoretic force on particle trajectories in microchannels. Journal of Applied Physics, 2006, 99, 064702. | 2.5 | 104 |
| 21 | Unimolecular micelles of amphiphilic cyclodextrin-core star-like block copolymers for anticancer drug delivery. Chemical Communications, 2015, 51, 15768-15771. | 4.1 | 102 |
| 22 | Biomimetic CoO@AuPt nanozyme responsive to multiple tumor microenvironmental clues for augmenting chemodynamic therapy. Biomaterials, 2020, 257, 120279. | 11.4 | 99 |
| 23 | ROS-responsive cyclodextrin nanoplatform for combined photodynamic therapy and chemotherapy of cancer. Chinese Chemical Letters, 2021, 32, 162-167. | 9.0 | 98 |
| 24 | TNFα gene silencing mediated by orally targeted nanoparticles combined with interleukin-22 for synergistic combination therapy of ulcerative colitis. Journal of Controlled Release, 2018, 287, 235-246. | 9.9 | 96 |
| 25 | 5G-enabled ultra-sensitive fluorescence sensor for proactive prognosis of COVID-19. Biosensors and Bioelectronics, 2021, 181, 113160. | 10.1 | 96 |
| 26 | The effects of poly(dimethylsiloxane) surface silanization on the mesenchymal stem cell fate. Biomaterials Science, 2015, 3, 383-390. | 5.4 | 92 |
| 27 | Apelin inhibits adipogenesis and lipolysis through distinct molecular pathways. Molecular and Cellular Endocrinology, 2012, 362, 227-241. | 3.2 | 89 |
| 28 | Multifunctional silica nanoparticles as a promising theranostic platform for biomedical applications. Materials Chemistry Frontiers, 2017, 1, 1257-1272. | 5.9 | 85 |
| 29 | Surface Modification of Poly(dimethylsiloxane) with Polydopamine and Hyaluronic Acid To Enhance Hemocompatibility for Potential Applications in Medical Implants or Devices. ACS Applied Materials & Interfaces, 2017, 9, 33632-33644. | 8.0 | 85 |
| 30 | Single-layer MoS ₂ nanosheet grafted upconversion nanoparticles for near-infrared fluorescence imaging-guided deep tissue cancer phototherapy. Nanoscale, 2016, 8, 7861-7865. | 5.6 | 84 |
| 31 | Phase-Change Material Packaged within Hollow Copper Sulfide Nanoparticles Carrying Doxorubicin and Chlorin e6 for Fluorescence-Guided Trimodal Therapy of Cancer. ACS Applied Materials & Interfaces, 2019, 11, 417-429. | 8.0 | 84 |
| 32 | Indocyanine Green-Conjugated Magnetic Prussian Blue Nanoparticles for Synchronous Photothermal/Photodynamic Tumor Therapy. Nano-Micro Letters, 2018, 10, 74. | 27.0 | 81 |
| 33 | Bioengineered nanogels for cancer immunotherapy. Chemical Society Reviews, 2022, 51, 5136-5174. | 38.1 | 81 |
| 34 | Glutathione-Responsive Polymeric Micelles Formed by a Biodegradable Amphiphilic Triblock Copolymer for Anticancer Drug Delivery and Controlled Release. ACS Biomaterials Science and Engineering, 2015, 1, 585-592. | 5.2 | 78 |
| 35 | Silencing of Intestinal Glycoprotein CD98 by Orally Targeted Nanoparticles Enhances Chemosensitization of Colon Cancer. ACS Nano, 2018, 12, 5253-5265. | 14.6 | 78 |
| 36 | Recent advances in thread-based microfluidics for diagnostic applications. Biosensors and Bioelectronics, 2019, 132, 171-185. | 10.1 | 78 |

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|----|---|------|-----------|
| 37 | A concentration gradient generator on a paper-based microfluidic chip coupled with cell culture microarray for high-throughput drug screening. Biomedical Microdevices, 2016, 18, 21. | 2.8 | 77 |
| 38 | Engineering oxygen-deficient ZrO2-x nanoplatform as therapy-activated "immunogenic cell death (ICD)―inducer to synergize photothermal-augmented sonodynamic tumor elimination in NIR-II biological window. Biomaterials, 2021, 272, 120787. | 11.4 | 77 |
| 39 | Prodrugâ€Based Versatile Nanomedicine for Enhancing Cancer Immunotherapy by Increasing Immunogenic Cell Death. Small, 2020, 16, e2000214. | 10.0 | 73 |
| 40 | On-chip counting the number and the percentage of CD4+ T lymphocytes. Lab on A Chip, 2008, 8, 309-315. | 6.0 | 71 |
| 41 | Highly Porous Silk Fibroin Scaffold Packed in PEGDA/Sucrose Microneedles for Controllable Transdermal Drug Delivery. Biomacromolecules, 2019, 20, 1334-1345. | 5.4 | 69 |
| 42 | Biomineralization-inspired Crystallization of Manganese Oxide on Silk Fibroin Nanoparticles for <i>in vivo</i> MR/fluorescence Imaging-assisted Tri-modal Therapy of Cancer. Theranostics, 2019, 9, 6314-6333. | 10.0 | 67 |
| 43 | Bioresponsive immune-booster-based prodrug nanogel for cancer immunotherapy. Acta Pharmaceutica Sinica B, 2022, 12, 451-466. | 12.0 | 66 |
| 44 | Continuous particle separation by size <i>via</i> ACâ€dielectrophoresis using a labâ€onâ€aâ€chip device with 3â€D electrodes. Electrophoresis, 2009, 30, 766-772. | 2.4 | 65 |
| 45 | Indocyanine green-modified hollow mesoporous Prussian blue nanoparticles loading doxorubicin for fluorescence-guided tri-modal combination therapy of cancer. Nanoscale, 2019, 11, 5717-5731. | 5.6 | 64 |
| 46 | Real time monitoring of aminothiol level in blood using a near-infrared dye assisted deep tissue fluorescence and photoacoustic bimodal imaging. Chemical Science, 2016, 7, 4110-4116. | 7.4 | 63 |
| 47 | Microfluidic differential resistive pulse sensors. Electrophoresis, 2008, 29, 2754-2759. | 2.4 | 59 |
| 48 | Simultaneous particle counting and detecting on a chip. Lab on A Chip, 2008, 8, 1943. | 6.0 | 59 |
| 49 | Light-activated oxygen self-supplied starving therapy in near-infrared (NIR) window and adjuvant hyperthermia-induced tumor ablation with an augmented sensitivity. Biomaterials, 2020, 234, 119771. | 11.4 | 59 |
| 50 | Green Fabrication of Ovalbumin Nanoparticles as Natural Polyphenol Carriers for Ulcerative Colitis Therapy. ACS Sustainable Chemistry and Engineering, 2018, 6, 12658-12667. | 6.7 | 57 |
| 51 | Light-activatable Chlorin e6 (Ce6)-imbedded erythrocyte membrane vesicles camouflaged Prussian blue nanoparticles for synergistic photothermal and photodynamic therapies of cancer. Biomaterials Science, 2018, 6, 2881-2895. | 5.4 | 56 |
| 52 | Smart Unimolecular Micelle-Based Polyprodrug with Dual-Redox Stimuli Response for Tumor Microenvironment: Enhanced in Vivo Delivery Efficiency and Tumor Penetration. ACS Applied Materials & Interfaces, 2019, 11, 36130-36140. | 8.0 | 56 |
| 53 | A Contact-Imaging Based Microfluidic Cytometer with Machine-Learning for Single-Frame Super-Resolution Processing. PLoS ONE, 2014, 9, e104539. | 2.5 | 55 |
| 54 | Calcium-carbonate packaging magnetic polydopamine nanoparticles loaded with indocyanine green for near-infrared induced photothermal/photodynamic therapy. Acta Biomaterialia, 2018, 81, 242-255. | 8.3 | 53 |

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|----|---|------|-----------|
| 55 | Responsive agarose hydrogel incorporated with natural humic acid and MnO ₂ nanoparticles for effective relief of tumor hypoxia and enhanced photo-induced tumor therapy. Biomaterials Science, 2020, 8, 353-369. | 5.4 | 53 |
| 56 | Tumor microenvironment responsive biomimetic copper peroxide nanoreactors for drug delivery and enhanced chemodynamic therapy. Chemical Engineering Journal, 2021, 416, 129037. | 12.7 | 53 |
| 57 | Living Cells Directly Growing on a DNA/Mn ₃ (PO ₄) ₂ â€Immobilized and Vertically Aligned CNT Array as a Freeâ€6tanding Hybrid Film for Highly Sensitive In Situ Detection of Released Superoxide Anions. Advanced Functional Materials, 2015, 25, 5924-5932. | 14.9 | 51 |
| 58 | PEGylated polydopamine-coated magnetic nanoparticles for combined targeted chemotherapy and photothermal ablation of tumour cells. Colloids and Surfaces B: Biointerfaces, 2017, 160, 11-21. | 5.0 | 51 |
| 59 | Small-Size Coupled-Fed Antenna With Two Printed Distributed Inductors for Seven-Band WWAN/LTE Mobile Handset. IEEE Transactions on Antennas and Propagation, 2013, 61, 5780-5784. | 5.1 | 49 |
| 60 | Cylindrical polymer brushes-anisotropic unimolecular micelle drug delivery system for enhancing the effectiveness of chemotherapy. Bioactive Materials, 2021, 6, 2894-2904. | 15.6 | 48 |
| 61 | An in-vitro study of enzyme-responsive Prussian blue nanoparticles for combined tumor chemotherapy and photothermal therapy. Colloids and Surfaces B: Biointerfaces, 2015, 125, 277-283. | 5.0 | 47 |
| 62 | A microfluidic co-culture system to monitor tumor-stromal interactions on a chip. Biomicrofluidics, 2014, 8, 064118. | 2.4 | 46 |
| 63 | Highly fluorescent and bioresorbable polymeric nanoparticles with enhanced photostability for cell imaging. Nanoscale, 2015, 7, 889-895. | 5.6 | 46 |
| 64 | Combinatorial effect of substratum properties on mesenchymal stem cell sheet engineering and subsequent multi-lineage differentiation. Acta Biomaterialia, 2015, 23, 52-62. | 8.3 | 44 |
| 65 | Radiation dominated acoustophoresis driven by surface acoustic waves. Journal of Colloid and Interface Science, 2015, 455, 203-211. | 9.4 | 44 |
| 66 | pH-Responsive unimolecular micelles based on amphiphilic star-like copolymers with high drug loading for effective drug delivery and cellular imaging. Journal of Materials Chemistry B, 2017, 5, 6847-6859. | 5.8 | 44 |
| 67 | Orange, yellow and blue luminescent carbon dots controlled by surface state for multicolor cellular imaging, light emission and illumination. Mikrochimica Acta, 2018, 185, 539. | 5.0 | 44 |
| 68 | Starburst Diblock Polyprodrugs: Reduction-Responsive Unimolecular Micelles with High Drug Loading and Robust Micellar Stability for Programmed Delivery of Anticancer Drugs. Biomacromolecules, 2019, 20, 1190-1202. | 5.4 | 44 |
| 69 | Supramolecular Tadalafil Nanovaccine for Cancer Immunotherapy by Alleviating Myeloidâ€Đerived Suppressor Cells and Heightening Immunogenicity. Small Methods, 2021, 5, e2100115. | 8.6 | 44 |
| 70 | Rapidly cell-penetrating and reductive milieu-responsive nanoaggregates assembled from an amphiphilic folate-camptothecin prodrug for enhanced drug delivery and controlled release. Biomaterials Science, 2017, 5, 444-454. | 5.4 | 43 |
| 71 | Gemcitabine–camptothecin conjugates: a hybrid prodrug for controlled drug release and synergistic therapeutics. Biomaterials Science, 2017, 5, 1889-1897. | 5.4 | 43 |
| 72 | Reduction stimuli-responsive unimolecular polymeric prodrug based on amphiphilic dextran-framework for antitumor drug delivery. Carbohydrate Polymers, 2018, 182, 235-244. | 10.2 | 42 |

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|----|--|--------------------|----------------------|
| 73 | Development of Multifunctional Polydopamine Nanoparticles As a Theranostic Nanoplatform against Cancer Cells. Langmuir, 2018, 34, 9516-9524. | 3.5 | 42 |
| 74 | pH-responsive polymeric micelles based on poly(ethyleneglycol)-b-poly(2-(diisopropylamino) ethyl) Tj ETQq0 C Colloid and Interface Science, 2017, 490, 511-519. | 0 rgBT /Ove 9.4 | rlock 10 Tf 50 41 |
| 75 | Injectable and Natural Humic Acid/Agarose Hybrid Hydrogel for Localized Light-Driven Photothermal Ablation and Chemotherapy of Cancer. ACS Biomaterials Science and Engineering, 2018, 4, 4266-4277. | 5.2 | 41 |
| 76 | Blood sampling using microneedles as a minimally invasive platform for biomedical diagnostics. Applied Materials Today, 2018, 13, 144-157. | 4.3 | 41 |
| 77 | Methotrexate-based amphiphilic prodrug nanoaggregates for co-administration of multiple therapeutics and synergistic cancer therapy. Acta Biomaterialia, 2018, 77, 228-239. | 8.3 | 41 |
| 78 | Chondroitin sulfate-functionalized polymeric nanoparticles for colon cancer-targeted chemotherapy. Colloids and Surfaces B: Biointerfaces, 2019, 177, 399-406. | 5.0 | 41 |
| 79 | Oral administration of colitis tissue-accumulating porous nanoparticles for ulcerative colitis therapy. International Journal of Pharmaceutics, 2019, 557, 135-144. | 5.2 | 41 |
| 80 | Enhanced Photoacoustic and Photothermal Effect of Functionalized Polypyrrole Nanoparticles for Near-Infrared Theranostic Treatment of Tumor. Biomacromolecules, 2019, 20, 401-411. | 5.4 | 41 |
| 81 | Flexible PEGDA-based microneedle patches with detachable PVP–CD arrowheads for transdermal drug delivery. RSC Advances, 2015, 5, 75204-75209. | 3.6 | 40 |
| 82 | Experimental characterization of a metal-oxide-semiconductor field-effect transistor-based Coulter counter. Journal of Applied Physics, 2008, 103, 104701-10470110. | 2.5 | 37 |
| 83 | Glutathione-Responsive Multifunctional "Trojan Horse―Nanogel as a Nanotheranostic for Combined Chemotherapy and Photodynamic Anticancer Therapy. ACS Applied Materials & Interfaces, 2020, 12, 50896-50908. | 8.0 | 37 |
| 84 | Novel Oxygen-Deficient Zirconia (ZrO _{2–<i>x</i>}) for Fluorescence/Photoacoustic Imaging-Guided Photothermal/Photodynamic Therapy for Cancer. ACS Applied Materials & Interfaces, 2019, 11, 41127-41139. | 8.0 | 35 |
| 85 | Reduction-Responsive Chemo-Capsule-Based Prodrug Nanogel for Synergistic Treatment of Tumor Chemotherapy. ACS Applied Materials & Interfaces, 2021, 13, 8940-8951. | 8.0 | 35 |
| 86 | Reduction-active polymeric prodrug micelles based on α-cyclodextrin polyrotaxanes for triggered drug release and enhanced cancer therapy. Carbohydrate Polymers, 2018, 193, 153-162. | 10.2 | 34 |
| 87 | PEGylated magnetic Prussian blue nanoparticles as a multifunctional therapeutic agent for combined targeted photothermal ablation and pH-triggered chemotherapy of tumour cells. Journal of Colloid and Interface Science, 2018, 509, 384-394. | 9.4 | 34 |
| 88 | PEGylated Polydopamine Nanoparticles Incorporated with Indocyanine Green and Doxorubicin for Magnetically Guided Multimodal Cancer Therapy Triggered by Near-Infrared Light. ACS Applied Nano Materials, 2018, 1, 325-336. | 5.0 | 34 |
| 89 | Polydopamine (PDA)-activated cobalt sulfide nanospheres responsive to tumor microenvironment (TME) for chemotherapeutic-enhanced photothermal therapy. Chinese Chemical Letters, 2021, 32, 1055-1060. | 9.0 | 34 |
| 90 | PDMS-film coated on PCB for AC impedance sensing of biological cells. Biomedical Microdevices, 2014, 16, 681-686. | 2.8 | 33 |

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| 91 | Acid-Activatable Theranostic Unimolecular Micelles Composed of Amphiphilic Star-like Polymeric Prodrug with High Drug Loading for Enhanced Cancer Therapy. Molecular Pharmaceutics, 2017, 14, 4032-4041. | 4.6 | 33 |
| 92 | Disassembly of amphiphilic small molecular prodrug with fluorescence switch induced by pH and folic acid receptors for targeted delivery and controlled release. Colloids and Surfaces B: Biointerfaces, 2017, 150, 50-58. | 5.0 | 32 |
| 93 | PEGDA/PVP Microneedles with Tailorable Matrix Constitutions for Controllable Transdermal Drug Delivery. Macromolecular Materials and Engineering, 2018, 303, 1800233. | 3.6 | 31 |
| 94 | A HMCuS@MnO ₂ nanocomplex responsive to multiple tumor environmental clues for photoacoustic/fluorescence/magnetic resonance trimodal imaging-guided and enhanced photothermal/photodynamic therapy. Nanoscale, 2020, 12, 12508-12521. | 5.6 | 31 |
| 95 | Mitochondria-Specific Anticancer Drug Delivery Based on Reduction-Activated Polyprodrug for Enhancing the Therapeutic Effect of Breast Cancer Chemotherapy. ACS Applied Materials & Interfaces, 2019, 11, 29330-29340. | 8.0 | 30 |
| 96 | Multifunctional SGQDs-CORM@HA nanosheets for bacterial eradication through cascade-activated "nanoknife―effect and photodynamic/CO gas therapy. Biomaterials, 2021, 277, 121084. | 11.4 | 30 |
| 97 | Design of a Fluidic Circuit-Based Microcytometer for Circulating Tumor Cell Detection and Enumeration. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 35-41. | 4.0 | 29 |
| 98 | Transdermal delivery of therapeutics through dissolvable gelatin/sucrose films coated on PEGDA microneedle arrays with improved skin permeability. Journal of Materials Chemistry B, 2019, 7, 7515-7524. | 5.8 | 29 |
| 99 | Tumor-Microenvironment-Activatable Nanoreactor Based on a Polyprodrug for Multimodal-Imaging-Medicated Enhanced Cancer Chemo/Phototherapy. ACS Applied Materials & Interfaces, 2019, 11, 40704-40715. | 8.0 | 29 |
| 100 | A bottlebrush-architectured dextran polyprodrug as an acidity-responsive vector for enhanced chemotherapy efficiency. Biomaterials Science, 2020, 8, 473-484. | 5.4 | 29 |
| 101 | Ultrasound (US)-activated redox dyshomeostasis therapy reinforced by immunogenic cell death (ICD) through a mitochondrial targeting liposomal nanosystem. Theranostics, 2021, 11, 9470-9491. | 10.0 | 29 |
| 102 | Wide-spectrum, ultrasensitive fluidic sensors with amplification from both fluidic circuits and metal oxide semiconductor field effect transistors. Applied Physics Letters, 2007, 91, . | 3.3 | 28 |
| 103 | Electrokinetic pumping using packed microcapillary. Sensors and Actuators A: Physical, 2007, 133, 375-382. | 4.1 | 28 |
| 104 | Long-Term Tracking Mesenchymal Stem Cell Differentiation with Photostable Fluorescent Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 11925-11933. | 8.0 | 28 |
| 105 | Confocal Laser Scanning Microscopy-Compatible Microfluidic Membrane Flow Cell as a Nondestructive Tool for Studying Biofouling Dynamics on Forward Osmosis Membranes. Environmental Science and Technology Letters, 2016, 3, 303-309. | 8.7 | 28 |
| 106 | Electrokinetic Analysis of Cell Translocation in Low-Cost Microfluidic Cytometry for Tumor Cell Detection and Enumeration. IEEE Transactions on Biomedical Engineering, 2013, 60, 3269-3275. | 4.2 | 27 |
| 107 | Protein Covalently Conjugated SU-8 Surface for the Enhancement of Mesenchymal Stem Cell Adhesion and Proliferation. Langmuir, 2014, 30, 3110-3117. | 3.5 | 27 |
| 108 | Microfluidic synthesis of monodisperse PEGDA microbeads for sustained release of 5-fluorouracil. Microfluidics and Nanofluidics, 2015, 18, 333-342. | 2.2 | 27 |

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|-----|---|------|-----------|
| 109 | iRGD-functionalized PEGylated nanoparticles for enhanced colon tumor accumulation and targeted drug delivery. Nanomedicine, 2017, 12, 1991-2006. | 3.3 | 27 |
| 110 | Polydopamine ollagen complex to enhance the biocompatibility of polydimethylsiloxane substrates for sustaining longâ€ŧerm culture of L929 fibroblasts and tendon stem cells. Journal of Biomedical Materials Research - Part A, 2018, 106, 408-418. | 4.0 | 27 |
| 111 | A simple technique of constructing nano-roughened polydimethylsiloxane surface to enhance mesenchymal stem cell adhesion and proliferation. Microfluidics and Nanofluidics, 2018, 22, 1. | 2.2 | 27 |
| 112 | Codelivery of doxorubicin and camptothecin by dual-responsive unimolecular micelle-based β-cyclodextrin for enhanced chemotherapy. Colloids and Surfaces B: Biointerfaces, 2019, 183, 110428. | 5.0 | 27 |
| 113 | PEGylated mesoporous Bi2S3 nanostars loaded with chlorin e6 and doxorubicin for fluorescence/CT imaging-guided multimodal therapy of cancer. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 17, 1-12. | 3.3 | 27 |
| 114 | A Microfluidic Impedance Cytometer on Printed Circuit Board for Low Cost Diagnosis. IEEE Sensors Journal, 2014, 14, 2112-2117. | 4.7 | 26 |
| 115 | Simple and low cost integration of highly conductive three-dimensional electrodes in microfluidic devices. Biomedical Microdevices, 2015, 17, 4. | 2.8 | 26 |
| 116 | Magnetic Prussian blue nanoparticles for combined enzyme-responsive drug release and photothermal therapy. RSC Advances, 2015, 5, 28401-28409. | 3.6 | 26 |
| 117 | Biomassâ€Derived Hierarchical Nanoporous Carbon with Rich Functional Groups for Directâ€Electronâ€Transferâ€Based Glucose Sensing. ChemElectroChem, 2016, 3, 144-151. | 3.4 | 26 |
| 118 | 3 <scp>D</scp> numerical simulation of a <scp>C</scp> oulter counter array with analysis of electrokinetic forces. Electrophoresis, 2013, 34, 417-424. | 2.4 | 25 |
| 119 | Acid-active supramolecular anticancer nanoparticles based on cyclodextrin polyrotaxanes damaging both mitochondria and nuclei of tumor cells. Biomaterials Science, 2018, 6, 3126-3138. | 5.4 | 25 |
| 120 | Facile fabrication of bowl-shaped microparticles for oral curcumin delivery to ulcerative colitis tissue. Colloids and Surfaces B: Biointerfaces, 2018, 169, 92-98. | 5.0 | 25 |
| 121 | Facile engineering of silk fibroin capped AuPt bimetallic nanozyme responsive to tumor microenvironmental factors for enhanced nanocatalytic therapy. Theranostics, 2021, 11, 107-116. | 10.0 | 25 |
| 122 | Analysis of the electroosmotic flow in a microchannel packed with homogeneous microspheres under electrokinetic wall effect. International Journal of Engineering Science, 2004, 42, 2011-2027. | 5.0 | 24 |
| 123 | Drug-eluting microneedles for self-administered treatment of keloids. Technology, 2014, 02, 144-152. | 1.4 | 24 |
| 124 | Near-IR squaraine dye–loaded gated periodic mesoporous organosilica for photo-oxidation of phenol in a continuous-flow device. Science Advances, 2015, 1, e1500390. | 10.3 | 24 |
| 125 | Microfluidic Assay To Study the Combinatorial Impact of Substrate Properties on Mesenchymal Stem Cell Migration. ACS Applied Materials & amp; Interfaces, 2015, 7, 17095-17103. | 8.0 | 24 |
| 126 | Stimuli responsive PEGylated bismuth selenide hollow nanocapsules for fluorescence/CT imaging and light-driven multimodal tumor therapy. Biomaterials Science, 2019, 7, 3025-3040. | 5.4 | 24 |

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|-----|--|-----|-----------|
| 127 | Electrochemical―and Fluorescentâ€Mediated Signal Amplifications for Rapid Detection of Lowâ€Abundance Circulating Tumor Cells on a Paperâ€Based Microfluidic Immunodevice. ChemElectroChem, 2014, 1, 722-727. | 3.4 | 23 |
| 128 | Rational design of oxygen deficient TiO _{2â^'x} nanoparticles conjugated with chlorin e6 (Ce6) for photoacoustic imaging-guided photothermal/photodynamic dual therapy of cancer. Nanoscale, 2020, 12, 1707-1718. | 5.6 | 23 |
| 129 | Frequency-dependent velocity and vorticity fields of electro-osmotic flow in a closed-end cylindrical microchannel. Journal of Micromechanics and Microengineering, 2005, 15, 301-312. | 2.6 | 22 |
| 130 | On-chip fluorescence-activated particle counting and sorting system. Analytica Chimica Acta, 2008, 626, 97-103. | 5.4 | 22 |
| 131 | Functional magnetic Prussian blue nanoparticles for enhanced gene transfection and photothermal ablation of tumor cells. Journal of Materials Chemistry B, 2016, 4, 4717-4725. | 5.8 | 22 |
| 132 | Precise Enumeration of Circulating Tumor Cells Using Support Vector Machine Algorithm on a Microfluidic Sensor. IEEE Transactions on Emerging Topics in Computing, 2017, 5, 518-525. | 4.6 | 22 |
| 133 | Energy Conversion from Salinity Gradients by Forward Osmosis–Electrokinetics. Journal of Physical Chemistry C, 2014, 118, 10574-10583. | 3.1 | 21 |
| 134 | RF-Activated Standing Surface Acoustic Wave for On-Chip Particle Manipulation. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1898-1904. | 4.6 | 21 |
| 135 | Differential microfluidic sensor on printed circuit board for biological cells analysis. Electrophoresis, 2015, 36, 1854-1858. | 2.4 | 21 |
| 136 | A Compact Optofluidic Cytometer for Detection and Enumeration of Tumor Cells. Journal of Lightwave Technology, 2015, 33, 3433-3438. | 4.6 | 21 |
| 137 | Chitosan functionalization to prolong stable hydrophilicity of cotton thread for thread-based analytical device application. Cellulose, 2018, 25, 4831-4840. | 4.9 | 21 |
| 138 | Intradermal administration of green synthesized nanosilver (NS) through film-coated PEGDA microneedles for potential antibacterial applications. Biomaterials Science, 2021, 9, 2244-2254. | 5.4 | 21 |
| 139 | Theranostic nanoplatform based on polypyrrole nanoparticles for photoacoustic imaging and photothermal therapy. Journal of Nanoparticle Research, 2018, 20, 1. | 1.9 | 20 |
| 140 | Water-soluble fluorescent unimolecular micelles: ultra-small size, tunable fluorescence emission from the visible to NIR region and enhanced biocompatibility for <i>in vitro</i> and <i>in vivo</i> bioimaging. Chemical Communications, 2018, 54, 6252-6255. | 4.1 | 20 |
| 141 | Microenvironment-responsive chemotherapeutic nanogels for enhancing tumor therapy via DNA damage and glutathione consumption. Chinese Chemical Letters, 2022, 33, 4197-4202. | 9.0 | 20 |
| 142 | Active targeting redox-responsive mannosylated prodrug nanocolloids promote tumor recognition and cell internalization for enhanced colon cancer chemotherapy. Acta Biomaterialia, 2022, 147, 299-313. | 8.3 | 20 |
| 143 | Highly efficient capture and harvest of circulating tumor cells on a microfluidic chip integrated with herringbone and micropost arrays. Biomedical Microdevices, 2015, 17, 39. | 2.8 | 19 |
| 144 | Enhanced Tumor Penetration and Chemotherapy Efficiency by Covalent Self-Assembled Nanomicelle Responsive to Tumor Microenvironment. Biomacromolecules, 2019, 20, 2637-2648. | 5.4 | 19 |

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|-----|---|------|-----------|
| 145 | Acidic TMEâ€Responsive Nanoâ€Bi ₂ Se ₃ @MnCaP as a NIRâ€Hâ€Triggered Free Radical Generator for Hypoxiaâ€Irrelevant Phototherapy with High Specificity and Immunogenicity. Small, 2022, 18, e2104302. | 10.0 | 19 |
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