Shi-shang Guo

List of Publications by Citations

211 papers	6,594 citations	45 h-index	71 g-index
222 ext. papers	7,652 ext. citations	6.7 avg, IF	5.65 L-index

#	Paper	IF	Citations
211	Cancer Cell Membrane-Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. *Advanced Materials*, **2016**, 28, 3460-6	24	319
210	Electrospun TiO2 nanofiber-based cell capture assay for detecting circulating tumor cells from colorectal and gastric cancer patients. *Advanced Materials*, **2012**, 24, 2756-60	24	285
209	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. *Small*, **2015**, 11, 6225-36	11	250
208	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. *ACS Nano*, **2017**, 11, 3496-3505	16.7	242
207	Highly uniform, bifunctional core/double-shell-structured □NaYF4:Er3+, Yb3+ @ SiO2@TiO2 hexagonal sub-microprisms for high-performance dye sensitized solar cells. *Advanced Materials*, **2013**, 25, 2174-80	24	204
206	Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. *Light: Science and Applications*, **2015**, 4, e342-e342	16.7	154
205	Cancer Cell Membrane Camouflaged Nanoparticles to Realize Starvation Therapy Together with Checkpoint Blockades for Enhancing Cancer Therapy. *ACS Nano*, **2019**, 13, 2849-2857	16.7	152
204	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. *ACS Applied Materials & Interfaces*, **2017**, 9, 2159-2168	9.5	140
203	A transparent and stable polypyrrole counter electrode for dye-sensitized solar cell. *Journal of Power Sources*, **2013**, 221, 78-83	8.9	120
202	Antitumor Platelet-Mimicking Magnetic Nanoparticles. *Advanced Functional Materials*, **2017**, 27, 1604774	15.6	112
201	Platelet□eukocyte Hybrid Membrane-Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells. *Advanced Functional Materials*, **2018**, 28, 1803531	15.6	101
200	Transparent, high-performance thin-film transistors with an InGaZnO/aligned-SnO2 -nanowire composite and their application in photodetectors. *Advanced Materials*, **2014**, 26, 7399-404	24	91
199	Generation of Janus alginate hydrogel particles with magnetic anisotropy for cell encapsulation. *Lab on A Chip*, **2009**, 9, 2981-6	7.2	90
198	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. *Angewandte Chemie - International Edition*, **2018**, 57, 986-991	16.4	89
197	Characterization of microfluidic fuel cell based on multiple laminar flow. *Microelectronic Engineering*, **2007**, 84, 1182-1185	2.5	82
196	Magneto-controllable capture and release of cancer cells by using a micropillar device decorated with graphite oxide-coated magnetic nanoparticles. *Small*, **2013**, 9, 3895-901	11	79
195	Cancer Stem Cell-Platelet Hybrid Membrane-Coated Magnetic Nanoparticles for Enhanced Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. *Advanced Functional Materials*, **2019**, 29, 1807733	15.6	78

194	Rational design of amorphous indium zinc oxide/carbon nanotube hybrid film for unique performance transistors. *Nano Letters*, **2012**, 12, 3596-601	11.5	78
193	Self-assembled free-standing polypyrrole nanotube membrane as an efficient FTO- and Pt-free counter electrode for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 14-7	9.5	75
192	Gelatin□mesoporous silica nanoparticles as matrix metalloproteinases-degradable drug delivery systems in vivo. *Microporous and Mesoporous Materials*, **2013**, 182, 165-172	5.3	74
191	Synthetic nanoparticles camouflaged with biomimetic erythrocyte membranes for reduced reticuloendothelial system uptake. *Nanotechnology*, **2016**, 27, 085106	3.4	72
190	Droplet electric separator microfluidic device for cell sorting. *Applied Physics Letters*, **2010**, 96, 193701	3.4	66
189	A micropillar-integrated smart microfluidic device for specific capture and sorting of cells. *Electrophoresis*, **2007**, 28, 4713-22	3.6	66
188	Biocompatible TiO2 nanoparticle-based cell immunoassay for circulating tumor cells capture and identification from cancer patients. *Biomedical Microdevices*, **2013**, 15, 617-626	3.7	63
187	Improved performance of dye-sensitized solar cells by trace amount Cr-doped TiO2 photoelectrodes. *Journal of Power Sources*, **2013**, 224, 168-173	8.9	62
186	W-doped TiO2 mesoporous electron transport layer for efficient hole transport material free perovskite solar cells employing carbon counter electrodes. *Journal of Power Sources*, **2017**, 342, 489-494	8.9	61
185	Macrophage membrane-coated iron oxide nanoparticles for enhanced photothermal tumor therapy. *Nanotechnology*, **2018**, 29, 134004	3.4	61
184	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. *ACS Applied Materials & Interfaces*, **2016**, 8, 7862-8	9.5	61
183	Effective cancer targeting and imaging using macrophage membrane-camouflaged upconversion nanoparticles. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 521-530	5.4	61
182	Hierarchically porous hybrids of polyaniline nanoparticles anchored on reduced graphene oxide sheets as counter electrodes for dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2013**, 1, 2762	13	61
181	On-demand preparation of quantum dot-encoded microparticles using a droplet microfluidic system. *Lab on A Chip*, **2011**, 11, 2561-8	7.2	60
180	A low cost mesoporous carbon/SnO2/TiO2 nanocomposite counter electrode for dye-sensitized solar cells. *Journal of Power Sources*, **2012**, 201, 402-407	8.9	59
179	Erythrocyte membrane-coated gold nanocages for targeted photothermal and chemical cancer therapy. *Nanotechnology*, **2018**, 29, 084002	3.4	59
178	Scalable integration of indium zinc oxide/photosensitive-nanowire composite thin-film transistors for transparent multicolor photodetectors array. *Advanced Materials*, **2014**, 26, 2919-24	24	57
177	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured □NaYF4:Er3+, Yb3+@SiO2 nanoparticles. *Nanoscale*, **2014**, 6, 2052-5	7.7	56

176	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. *Nano Letters*, **2019**, 19, 2215-2222	11.5	56
175	Supramolecular gelatin nanoparticles as matrix metalloproteinase responsive cancer cell imaging probes. *Chemical Communications*, **2013**, 49, 4462-4	5.8	54
174	Effect of Thickness on the Structure and Properties of ZnO Thin Films Prepared by Pulsed Laser Deposition. *Japanese Journal of Applied Physics*, **2006**, 45, 7860-7865	1.4	53
173	Direct tri-constituent co-assembly of highly ordered mesoporous carbon counter electrode for dye-sensitized solar cells. *Nanoscale*, **2013**, 5, 337-41	7.7	52
172	The effect of interfacial tension on droplet formation in flow-focusing microfluidic device. *Biomedical Microdevices*, **2011**, 13, 559-64	3.7	52
171	Milliseconds mixing in microfluidic channel using focused surface acoustic wave. *Sensors and Actuators B: Chemical*, **2011**, 160, 1552-1556	8.5	50
170	A strong green fluorescent nanoprobe for highly sensitive and selective detection of nitrite ions based on phosphorus and nitrogen co-doped carbon quantum dots. *Sensors and Actuators B: Chemical*, **2018**, 262, 555-561	8.5	49
169	Synergistic effects of ZnO compact layer and TiCl4 post-treatment for dye-sensitized solar cells. *Journal of Power Sources*, **2012**, 204, 257-264	8.9	49
168	Capture and Release of Cancer Cells by Combining On-Chip Purification and Off-Chip Enzymatic Treatment. *ACS Applied Materials & Interfaces*, **2015**, 7, 24001-7	9.5	47
167	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. *Microfluidics and Nanofluidics*, **2012**, 13, 761-767	2.8	46
166	One-pot stirring-free synthesis of silver nanowires with tunable lengths and diameters via a Fe & Cl co-mediated polyol method and their application as transparent conductive films. *Nanoscale*, **2016**, 8, 18121-18133	7.7	45
165	Valve-based microfluidic device for droplet on-demand operation and static assay. *Applied Physics Letters*, **2010**, 97, 233701	3.4	42
164	A liquid thermal gradient refractive index lens and using it to trap single living cell in flowing environments. *Lab on A Chip*, **2017**, 17, 1280-1286	7.2	40
163	Photocatalytic Degradation of Cell Membrane Coatings for Controlled Drug Release. *Advanced Healthcare Materials*, **2016**, 5, 1420-7	10.1	40
162	Layer-by-layer self-assembly of TiO2 hierarchical nanosheets with exposed {001} facets as an effective bifunctional layer for dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2014**, 6, 9144-9	9.5	39
161	Enhanced performance in hole transport material free perovskite solar cells via morphology control of PbI2 film by solvent treatment. *Journal of Power Sources*, **2016**, 319, 111-115	8.9	39
160	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO2 @Gel-Microbead-Based Size Difference Amplification. *Advanced Healthcare Materials*, **2016**, 5, 1554-9	10.1	38
159	Capture and release of cancer cells based on sacrificeable transparent MnO2 nanospheres thin film. *Advanced Healthcare Materials*, **2014**, 3, 1420-5	10.1	37

158	Capture and release of cancer cells using electrospun etchable MnO2 nanofibers integrated in microchannels. *Applied Physics Letters*, **2015**, 106, 093703	3.4	36
157	Significant Radiation Tolerance and Moderate Reduction in Thermal Transport of a Tungsten Nanofilm by Inserting Monolayer Graphene. *Advanced Materials*, **2017**, 29, 1604623	24	36
156	Efficient Capture and High Activity Release of Circulating Tumor Cells by Using TiO Nanorod Arrays Coated with Soluble MnO Nanoparticles. *ACS Applied Materials & Interfaces*, **2018**, 10, 16327-16334	9.5	35
155	Enhanced performance of piezoelectric nanogenerator based on aligned nanofibers and three-dimensional interdigital electrodes. *Nano Energy*, **2019**, 65, 103924	17.1	35
154	Multi-walled carbon nanotubes act as charge transport channel to boost the efficiency of hole transport material free perovskite solar cells. *Journal of Power Sources*, **2016**, 332, 24-29	8.9	35
153	Multifunctional alumina/titania hybrid blocking layer modified nanocrystalline titania films as efficient photoanodes in dye sensitized solar cells. *Journal of Power Sources*, **2015**, 282, 596-601	8.9	34
152	Engineered red blood cells for capturing circulating tumor cells with high performance. *Nanoscale*, **2018**, 10, 6014-6023	7.7	33
151	A microfluidic system with surface modified piezoelectric sensor for trapping and detection of cancer cells. *Biosensors and Bioelectronics*, **2010**, 26, 935-9	11.8	33
150	Enhanced magnetoelectric effect in Terfenol-D and flextensional cymbal laminates. *Applied Physics Letters*, **2006**, 88, 182906	3.4	33
149	Application of mesoporous SiO2 layer as an insulating layer in high performance hole transport material free CH3NH3PbI3 perovskite solar cells. *Journal of Power Sources*, **2016**, 321, 71-75	8.9	33
148	Hierarchical donut-shaped LiMn2O4 as an advanced cathode material for lithium-ion batteries with excellent rate capability and long cycle life. *Journal of Materials Chemistry A*, **2015**, 3, 8165-8170	13	31
147	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. *Journal of Materials Chemistry*, **2011**, 21, 13380		31
146	Constructing hierarchical fastener-like spheres from anatase TiO2 nanosheets with exposed {001} facets for high-performance dye-sensitized solar cells. *Journal of Power Sources*, **2014**, 262, 86-92	8.9	30
145	Effect of CoFe2O4 content on the dielectric and magnetoelectric properties in Pb(ZrTi)O3/CoFe2O4 composite. *Journal of Electroceramics*, **2008**, 21, 398-400	1.5	29
144	Introducing an Intermediate Band into Dye-Sensitized Solar Cells by W6+ Doping into TiO2 Nanocrystalline Photoanodes. *Journal of Physical Chemistry C*, **2014**, 118, 16892-16895	3.8	28
143	Rapid purification of cell encapsulated hydrogel beads from oil phase to aqueous phase in a microfluidic device. *Lab on A Chip*, **2011**, 11, 4117-21	7.2	28
142	A general strategy to construct uniform carbon-coated spinel LiMn2O4 nanowires for ultrafast rechargeable lithium-ion batteries with a long cycle life. *Nanoscale*, **2015**, 7, 13173-80	7.7	27
141	Microstructures, surface bonding states and room temperature ferromagnetisms of Zn0.95Co0.05O thin films doped with copper. *Applied Surface Science*, **2010**, 256, 3669-3675	6.7	27

140	Two dimensional graphitic carbon nitride quantum dots modified perovskite solar cells and photodetectors with high performances. *Journal of Power Sources*, **2020**, 451, 227825	8.9	27
139	Hydrothermal synthesis of TiO2 nanoparticles doped with trace amounts of strontium, and their application as working electrodes for dye sensitized solar cells: tunable electrical properties & enhanced photo-conversion performance. *RSC Advances*, **2017**, 7, 2358-2364	3.7	26
138	Biomimetic Immunomagnetic Nanoparticles with Minimal Nonspecific Biomolecule Adsorption for Enhanced Isolation of Circulating Tumor Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 28732-28739	9.5	26
137	Integrated microdevice for long-term automated perfusion culture without shear stress and real-time electrochemical monitoring of cells. *Analytical Chemistry*, **2011**, 83, 9524-30	7.8	26
136	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. *Journal of Materials Chemistry B*, **2017**, 5, 226-235	7.3	25
135	Enhancing the performance of hole-conductor free carbon-based perovskite solar cells through rutile-phase passivation of anatase TiO2 scaffold. *Journal of Power Sources*, **2019**, 422, 138-144	8.9	24
134	Morphology transformations in tetrabutyl titanate–acetic acid system and sub-micron/micron hierarchical TiO2 for dye-sensitized solar cells. *Journal of Power Sources*, **2013**, 242, 848-854	8.9	24
133	Photoelectrodes modification by N doping for dye-sensitized solar cells. *Electrochimica Acta*, **2013**, 93, 202-206	6.7	24
132	Enhanced output-performance of piezoelectric poly(vinylidene fluoride trifluoroethylene) fibers-based nanogenerator with interdigital electrodes and well-ordered cylindrical cavities. *Applied Physics Letters*, **2018**, 112, 072902	3.4	23
131	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. *Carbon*, **2014**, 77, 18-24	10.4	23
130	Displacement amplification and resonance characteristics of the cymbal transducers. *Sensors and Actuators A: Physical*, **2005**, 121, 213-220	3.9	23
129	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2854-60	5.4	22
128	A composite nanostructured electron-transport layer for stable hole-conductor free perovskite solar cells: design and characterization. *Nanoscale*, **2016**, 8, 5847-51	7.7	22
127	Effects of bis(imidazolium) molten salts with different substituents of imidazolium cations on the performance of efficient dye-sensitized solar cells. *ACS Applied Materials & Interfaces*, **2013**, 5, 3356-61	9.5	22
126	A strong correlation of crystal structure and Curie point of barium titanate ceramics with Ba/Ti ratio of precursor composition. *Physica B: Condensed Matter*, **2008**, 403, 660-663	2.8	22
125	ZnO nanowire-integrated bio-microchips for specific capture and non-destructive release of circulating tumor cells. *Nanoscale*, **2020**, 12, 1455-1463	7.7	21
124	A flexible, wave-shaped P(VDF-TrFE)/metglas piezoelectric composite for wearable applications. *Journal of Applied Physics*, **2016**, 120, 234103	2.5	21
123	Capture and "self-release" of circulating tumor cells using metal-organic framework materials. *Nanoscale*, **2019**, 11, 8293-8303	7.7	20

122	A microfluidic electrostatic separator based on pre-charged droplets. *Sensors and Actuators B: Chemical*, **2015**, 210, 328-335	8.5	20
121	Rings of saturn-like nanoarrays with high number density of hot spots for surface-enhanced Raman scattering. *Applied Physics Letters*, **2014**, 105, 033515	3.4	20
120	Integration of minisolenoids in microfluidic device for magnetic bead based immunoassays. *Journal of Applied Physics*, **2007**, 102, 084911	2.5	20
119	The Study for Solution-Processed Alkali Metal-Doped Indium Zinc Oxide Thin-Film Transistors. *IEEE Electron Device Letters*, **2016**, 37, 50-52	4.4	19
118	Self-amplified piezoelectric nanogenerator with enhanced output performance: The synergistic effect of micropatterned polymer film and interweaved silver nanowires. *Applied Physics Letters*, **2015**, 106, 163901	3.4	19
117	Modulating the threshold voltage of oxide nanowire field-effect transistors by a Ga+ ion beam. *Nano Research*, **2014**, 7, 1691-1698	10	19
116	Controllable synthesis of flake-like Al-doped ZnO nanostructures and its application in inverted organic solar cells. *Nanoscale Research Letters*, **2011**, 6, 546	5	18
115	Response of super-paramagnetic beads in microfluidic devices with integrated magnetic micro-columns. *Microelectronic Engineering*, **2006**, 83, 1655-1659	2.5	18
114	Structural evolution and dielectric relaxation behavior of electron-irradiated poly(vinylidene fluoride trifluoroethylene) 80/20 mol % copolymers. *Journal of Applied Physics*, **2003**, 94, 5566-5573	2.5	18
113	Enhanced isolation and release of fetal nucleated red blood cells using multifunctional nanoparticle-based microfluidic device for non-invasive prenatal diagnostics. *Sensors and Actuators B: Chemical*, **2019**, 281, 131-138	8.5	18
112	Contrasting room-temperature hydrogen sensing capabilities of Pt-SnO2 and Pt-TiO2 composite nanoceramics. *Nano Research*, **2016**, 9, 3528-3535	10	17
111	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. *Diamond and Related Materials*, **2009**, 18, 1381-1386	3.5	17
110	A Flexible Piezoelectric Nanogenerator Based on Aligned P(VDF-TrFE) Nanofibers. *Micromachines*, **2019**, 10,	3.3	16
109	A Digital Acoustofluidic Pump Powered by Localized Fluid-Substrate Interactions. *Analytical Chemistry*, **2019**, 91, 7097-7103	7.8	16
108	An Acoustic Droplet-Induced Enzyme Responsive Platform for the Capture and On-Demand Release of Single Circulating Tumor Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 41118-41126	9.5	16
107	Highly sensitive microfluidic flow sensor based on aligned piezoelectric poly(vinylidene fluoride-trifluoroethylene) nanofibers. *Applied Physics Letters*, **2015**, 107, 242901	3.4	16
106	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. *Microfluidics and Nanofluidics*, **2014**, 16, 29-37	2.8	16
105	Valve-based microfluidic droplet micromixer and mercury (II) ion detection. *Sensors and Actuators A: Physical*, **2011**, 172, 546-551	3.9	16

104	Patterning of hydrophilic micro arrays with superhydrophobic surrounding zones. *Microelectronic Engineering*, **2007**, 84, 1673-1676	2.5	16
103	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. *AIP Advances*, **2015**, 5, 057134	1.5	15
102	Realization of planar mixing by chaotic velocity in microfluidics. *Microelectronic Engineering*, **2011**, 88, 959-963	2.5	15
101	Effective capture and release of circulating tumor cells using core-shell Fe3O4@MnO2 nanoparticles. *Chemical Physics Letters*, **2017**, 668, 35-41	2.5	14
100	Rapid and efficient isolation and detection of circulating tumor cells based on ZnS:Mn quantum dots and magnetic nanocomposites. *Talanta*, **2019**, 202, 230-236	6.2	14
99	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. *Angewandte Chemie*, **2018**, 130, 998-1003	3.6	14
98	Improving the performance through SPR effect by employing Au@SiO2 core-shell nanoparticles incorporated TiO2 scaffold in efficient hole transport material free perovskite solar cells. *Electrochimica Acta*, **2018**, 282, 10-15	6.7	14
97	Enhance the performance of dye-sensitized solar cells by balancing the light harvesting and electron collecting efficiencies of scattering layer based photoanodes. *Electrochimica Acta*, **2014**, 132, 25-30	6.7	14
96	A digital acoustofluidic device for on-demand and oil-free droplet generation. *Nanotechnology*, **2019**, 30, 084001	3.4	14
95	Band structure, effective mass, and carrier mobility of few-layer h-AlN under layer and strain engineering. *APL Materials*, **2020**, 8, 021107	5.7	13
94	Highly sensitive and rapid isolation of fetal nucleated red blood cells with microbead-based selective sedimentation for non-invasive prenatal diagnostics. *Nanotechnology*, **2018**, 29, 434001	3.4	13
93	Efficient dye-sensitized solar cells employing highly environmentally-friendly ubiquinone 10 based I2-free electrolyte inspired by photosynthesis. *Journal of Materials Chemistry A*, **2014**, 2, 9007-9010	13	13
92	The preparation and characterization of 1D multiferroic BFO/P(VDF-TrFE) composite nanofibers using electrospinning. *Materials Letters*, **2014**, 130, 157-159	3.3	13
91	An efficient PDPPTPT:PC61BM-based tandem polymer solar cells with a Ca/Ag/MoO3 intermediate layer. *Solar Energy Materials and Solar Cells*, **2013**, 113, 135-139	6.4	13
90	Side-to-side alignment of gold nanorods with polarization-free characteristic for highly reproducible surface enhanced Raman scattering. *Applied Physics Letters*, **2014**, 105, 211902	3.4	13
89	High mobility amorphous InGaZnO thin film transistor with single wall carbon nanotubes enhanced-current path. *Applied Physics Letters*, **2013**, 103, 223108	3.4	13
88	Effect of patterned micro-magnets on superparamagnetic beads in microchannels. *Journal Physics D: Applied Physics*, **2008**, 41, 105008	3	13
87	Fabrication and characterization of NiP(VDF-TrFE) nanoscaled coaxial cables. *Applied Physics Letters* , **2007**, 90, 253107	3.4	13

86	The influence of Mg doping on the dielectric and tunable properties of (Ba0.6Sr0.4)0.925K0.075TiO3 thin films fabricated by sol–gel method. *Journal of Crystal Growth*, **2006**, 290, 121-126	1.6	13
85	High electrostriction and relaxor ferroelectric behavior in proton-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer. *Applied Physics Letters*, **2004**, 84, 3349-3351	3.4	13
84	Effect of γ-ray radiation on structure of P(VDF/TrFE) 80/20 mol% copolymers. *European Polymer Journal*, **2001**, 37, 471-474	5.2	13
83	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. *Nano Futures*, **2018**, 2, 025004	3.6	12
82	Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device. *Sensors and Actuators A: Physical*, **2018**, 279, 313-320	3.9	12
81	Rapid Microfluidic Formation of Uniform Patient-Derived Breast Tumor Spheroids.. *ACS Applied Bio Materials*, **2020**, 3, 6273-6283	4.1	12
80	The acoustic droplet printing of functional tumor microenvironments. *Lab on A Chip*, **2021**, 21, 1604-1612	7.2	12
79	Ultrasonic particle trapping in microfluidic devices using soft lithography. *Applied Physics Letters*, **2008**, 92, 213901	3.4	11
78	Microfluidic synthesis of multiferroic Janus particles with disk-like compartments. *Applied Physics Letters*, **2016**, 108, 073504	3.4	11
77	TiO nanopillar arrays coated with gelatin film for efficient capture and undamaged release of circulating tumor cells. *Nanotechnology*, **2019**, 30, 335101	3.4	10
76	Enhanced electrical properties of composite nanostructures using BiFeO3 nanotubes and ferroelectric copolymers. *Materials Letters*, **2013**, 94, 183-185	3.3	10
75	A novel method for generation of amphiphilic PDMS particles by selective modification. *Microfluidics and Nanofluidics*, **2011**, 10, 453-458	2.8	10
74	Effect of annealing temperature on microstructure, optical and electrical properties of sputtered Ba0.9Sr0.1TiO3 thin films. *Applied Surface Science*, **2009**, 255, 9045-9053	6.7	10
73	Effect of K-doping on the dielectric and tunable properties of Ba0.6Sr0.4TiO3 thin films prepared by RF magnetron sputtering. *Journal of Crystal Growth*, **2007**, 306, 22-26	1.6	10
72	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. *Microfluidics and Nanofluidics*, **2016**, 20, 1	2.8	10
71	The acoustofluidic focusing and separation of rare tumor cells using transparent lithium niobate transducers. *Lab on A Chip*, **2019**, 19, 3922-3930	7.2	10
70	A valve-based microfluidic device for on-chip single cell treatments. *Electrophoresis*, **2019**, 40, 961-968	3.6	10
69	Highly biocompatible and recyclable biomimetic nanoparticles for antibiotic-resistant bacteria infection. *Biomaterials Science*, **2021**, 9, 826-834	7.4	10

68	Self-powered technology based on nanogenerators for biomedical applications. *Exploration*, **2021**, 1, 90-114		10
67	Effect of HAc treatment on an open-environment prepared organic redox couple based on hydroquinone/benzoquinone and its application in dye-sensitized solar cells. *Electrochimica Acta*, **2013**, 107, 695-700	6.7	9
66	Generation of BiFeO3-Fe3O4 Janus particles based on droplet microfluidic method. *Applied Physics Letters*, **2014**, 105, 042903	3.4	9
65	Surface acoustic wave-based ultraviolet photodetectors: a review. *Science Bulletin*, **2020**, 65, 587-600	10.6	9
64	Janus droplet parallel arrangements using a simple Y-channel flow-focusing microfluidic device. *Chemical Physics Letters*, **2017**, 673, 93-98	2.5	8
63	Multifunctional Gelatin Nanoparticle Integrated Microchip for Enhanced Capture, Release, and Analysis of Circulating Tumor Cells. *Particle and Particle Systems Characterization*, **2019**, 36, 1900076	3.1	8
62	Precursor engineering for performance enhancement of hole-transport-layer-free carbon-based MAPbBr3 perovskite solar cells. *Journal of Alloys and Compounds*, **2020**, 832, 154902	5.7	8
61	High performance amorphous ZnMgO/carbon nanotube composite thin-film transistors with a tunable threshold voltage. *Nanoscale*, **2013**, 5, 2830-4	7.7	8
60	Reversible phase transition and structure memory effect of metastable phase in electron-irradiated poly(vinylidene-fluoride-trifluoroethyline) copolymers. *Applied Physics Letters*, **2003**, 82, 2136-2138	3.4	8
59	Efficient Welding of Silver Nanowires embedded in a Poly(vinylidene fluoride) Film for Robust Wearable Electronics. *Advanced Materials Technologies*, **2019**, 4, 1800438	6.8	8
58	Constructed Single-Crystal Rutile TiO2 Cluster and Plasmon Synergistic Effect for Dye-Sensitized Solar Cells. *Electrochimica Acta*, **2015**, 180, 705-711	6.7	7
57	Profiling of immune-cancer interactions at the single-cell level using a microfluidic well array. *Analyst, The*, **2020**, 145, 4138-4147	5	7
56	A novel glowing electrolyte based on perylene accompany with spectrum compensation function for efficient dye sensitized solar cells. *Journal of Power Sources*, **2015**, 280, 430-434	8.9	7
55	A hospital based retrospective study of factors influencing therapeutic leukapheresis in patients presenting with hyperleukocytic leukaemia. *Scientific Reports*, **2018**, 8, 294	4.9	6
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53	The Overall Release of Circulating Tumor Cells by Using Temperature Control and Matrix Metalloproteinase-9 Enzyme on Gelatin Film.. *ACS Applied Bio Materials*, **2018**, 1, 910-916	4.1	6
52	Lab-on-a-chip for high frequency acoustic characterization. *Sensors and Actuators B: Chemical*, **2013**, 177, 753-760	8.5	6
51	Controllable fission of droplets and bubbles by pneumatic valve. *Microfluidics and Nanofluidics*, **2011**, 10, 1343-1349	2.8	6

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