

Shi-shang Guo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Heterointerface engineering and piezoelectric effect enhanced performance of self-charging supercapacitors power cell. <i>Nano Energy</i> , 2022 , 91, 106701	17.1	1
210	Nanomaterial-Based Immunocapture Platforms for the Recognition, Isolation, and Detection of Circulating Tumor Cells.. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022 , 10, 850241	5.8	1
209	Bioprinting of Patient-Derived Organoids for Predicting Cancer Therapy Responses.. <i>Advanced Healthcare Materials</i> , 2022 , e2102784	10.1	0
208	Self-Powered Pacemaker Based on All-in-one Flexible Piezoelectric Nanogenerator. <i>Nano Energy</i> , 2022 , 107420	17.1	1
207	Acoustic Droplet Vitrification Method for High-Efficiency Preservation of Rare Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 12950-12959	9.5	4
206	Acoustic Droplet-Assisted Superhydrophilic-Superhydrophobic Microarray Platform for High-Throughput Screening of Patient-Derived Tumor Spheroids. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23489-23501	9.5	3
205	Detection of circulating tumor cells and single cell extraction technology: principle, effect and application prospect. <i>Nano Futures</i> , 2021 , 5, 032002	3.6	1
204	Highly biocompatible and recyclable biomimetic nanoparticles for antibiotic-resistant bacteria infection. <i>Biomaterials Science</i> , 2021 , 9, 826-834	7.4	10
203	On-chip rapid drug screening of leukemia cells by acoustic streaming. <i>Lab on A Chip</i> , 2021 , 21, 4005-4015	7.2	1
202	The acoustic droplet printing of functional tumor microenvironments. <i>Lab on A Chip</i> , 2021 , 21, 1604-1617	7.2	12
201	Scaffold-free generation of heterotypic cell spheroids using acoustofluidics. <i>Lab on A Chip</i> , 2021 , 21, 3498-3508	7.2	3
200	Self-powered technology based on nanogenerators for biomedical applications. <i>Exploration</i> , 2021 , 1, 90-114		10
199	Acoustic Droplet Printing Tumor Organoids for Modeling Bladder Tumor Immune Microenvironment within a Week. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2101312	10.1	3
198	Emerging Microfluidic Technologies for the Detection of Circulating Tumor Cells and Fetal Nucleated Red Blood Cells.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 1140-1155	4.1	6
197	Therapeutic Plateletpheresis in Patients With Thrombocytosis: Gender, Hemoglobin Before Apheresis Significantly Affect Collection Efficiency.. <i>Frontiers in Medicine</i> , 2021 , 8, 762419	4.9	1
196	A localized surface acoustic wave applied spatiotemporally controllable chemical gradient generator. <i>Biomicrofluidics</i> , 2020 , 14, 024106	3.2	0
195	Investigation of modified Lamé mode resonator with high coupling coefficient. <i>Journal of Applied Physics</i> , 2020 , 127, 074503	2.5	0

194	Band structure, effective mass, and carrier mobility of few-layer h-AlN under layer and strain engineering. <i>APL Materials</i> , 2020 , 8, 021107	5.7	13
193	Precursor engineering for performance enhancement of hole-transport-layer-free carbon-based MAPbBr ₃ perovskite solar cells. <i>Journal of Alloys and Compounds</i> , 2020 , 832, 154902	5.7	8
192	Profiling of immune-cancer interactions at the single-cell level using a microfluidic well array. <i>Analyst, The</i> , 2020 , 145, 4138-4147	5	7
191	Nozzle-free droplet generation with focused acoustic beams for encapsulation of single circulating tumor cells. <i>Nano Futures</i> , 2020 , 4, 045001	3.6	1
190	Two dimensional graphitic carbon nitride quantum dots modified perovskite solar cells and photodetectors with high performances. <i>Journal of Power Sources</i> , 2020 , 451, 227825	8.9	27
189	Electrospun degradable Zn-Mn oxide hierarchical nanofibers for specific capture and efficient release of circulating tumor cells. <i>Nanotechnology</i> , 2020 , 31, 495102	3.4	4
188	ZnO nanowire-integrated bio-microchips for specific capture and non-destructive release of circulating tumor cells. <i>Nanoscale</i> , 2020 , 12, 1455-1463	7.7	21
187	Surface acoustic wave-based ultraviolet photodetectors: a review. <i>Science Bulletin</i> , 2020 , 65, 587-600	10.6	9
186	Rapid Microfluidic Formation of Uniform Patient-Derived Breast Tumor Spheroids.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6273-6283	4.1	12
185	Efficient Detection and Single-Cell Extraction of Circulating Tumor Cells in Peripheral Blood.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 6521-6528	4.1	3
184	Electronic Structure and Optical Properties of YAlN: A First-Principles Study. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 1900678	1.3	1
183	A Flexible Piezoelectric Nanogenerator Based on Aligned P(VDF-TrFE) Nanofibers. <i>Micromachines</i> , 2019 , 10,	3.3	16
182	Rapid and efficient isolation and detection of circulating tumor cells based on ZnS:Mn quantum dots and magnetic nanocomposites. <i>Talanta</i> , 2019 , 202, 230-236	6.2	14
181	A Digital Acoustofluidic Pump Powered by Localized Fluid-Substrate Interactions. <i>Analytical Chemistry</i> , 2019 , 91, 7097-7103	7.8	16
180	Multifunctional Gelatin Nanoparticle Integrated Microchip for Enhanced Capture, Release, and Analysis of Circulating Tumor Cells. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900076	3.1	8
179	Capture and "self-release" of circulating tumor cells using metal-organic framework materials. <i>Nanoscale</i> , 2019 , 11, 8293-8303	7.7	20
178	Enhancing the performance of hole-conductor free carbon-based perovskite solar cells through rutile-phase passivation of anatase TiO ₂ scaffold. <i>Journal of Power Sources</i> , 2019 , 422, 138-144	8.9	24
177	TiO nanopillar arrays coated with gelatin film for efficient capture and undamaged release of circulating tumor cells. <i>Nanotechnology</i> , 2019 , 30, 335101	3.4	10

176	Cancer Stem Cell-Platelet Hybrid Membrane-Coated Magnetic Nanoparticles for Enhanced Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Advanced Functional Materials</i> , 2019 , 29, 1807733	15.6	78
175	Cancer Cell Membrane Camouflaged Nanoparticles to Realize Starvation Therapy Together with Checkpoint Blockades for Enhancing Cancer Therapy. <i>ACS Nano</i> , 2019 , 13, 2849-2857	16.7	152
174	Enhanced performance of piezoelectric nanogenerator based on aligned nanofibers and three-dimensional interdigital electrodes. <i>Nano Energy</i> , 2019 , 65, 103924	17.1	35
173	Biomimetic Immunomagnetic Nanoparticles with Minimal Nonspecific Biomolecule Adsorption for Enhanced Isolation of Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 28732-28739	8.5	26
172	An Acoustic Droplet-Induced Enzyme Responsive Platform for the Capture and On-Demand Release of Single Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 41118-41126	9.5	16
171	The acoustofluidic focusing and separation of rare tumor cells using transparent lithium niobate transducers. <i>Lab on A Chip</i> , 2019 , 19, 3922-3930	7.2	10
170	A valve-based microfluidic device for on-chip single cell treatments. <i>Electrophoresis</i> , 2019 , 40, 961-968	3.6	10
169	Efficient Welding of Silver Nanowires embedded in a Poly(vinylidene fluoride) Film for Robust Wearable Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800438	6.8	8
168	Enhanced isolation and release of fetal nucleated red blood cells using multifunctional nanoparticle-based microfluidic device for non-invasive prenatal diagnostics. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 131-138	8.5	18
167	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. <i>Nano Letters</i> , 2019 , 19, 2215-2222	11.5	56
166	A digital acoustofluidic device for on-demand and oil-free droplet generation. <i>Nanotechnology</i> , 2019 , 30, 084001	3.4	14
165	A hospital based retrospective study of factors influencing therapeutic leukapheresis in patients presenting with hyperleukocytic leukaemia. <i>Scientific Reports</i> , 2018 , 8, 294	4.9	6
164	Engineered red blood cells for capturing circulating tumor cells with high performance. <i>Nanoscale</i> , 2018 , 10, 6014-6023	7.7	33
163	An improved bulk acoustic waves chip based on a PDMS bonding layer for high-efficient particle enrichment. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	6
162	Efficient Capture and High Activity Release of Circulating Tumor Cells by Using TiO Nanorod Arrays Coated with Soluble MnO Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16327-16334	9.5	35
161	Enhanced output-performance of piezoelectric poly(vinylidene fluoride trifluoroethylene) fibers-based nanogenerator with interdigital electrodes and well-ordered cylindrical cavities. <i>Applied Physics Letters</i> , 2018 , 112, 072902	3.4	23
160	Macrophage membrane-coated iron oxide nanoparticles for enhanced photothermal tumor therapy. <i>Nanotechnology</i> , 2018 , 29, 134004	3.4	61
159	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Angewandte Chemie</i> , 2018 , 130, 998-1003	3.6	14

158	A strong green fluorescent nanoprobe for highly sensitive and selective detection of nitrite ions based on phosphorus and nitrogen co-doped carbon quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2018 , 262, 555-561	8.5	49
157	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. <i>Nano Futures</i> , 2018 , 2, 025004	3.6	12
156	Platelet-Leukocyte Hybrid Membrane-Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells. <i>Advanced Functional Materials</i> , 2018 , 28, 1803531	15.6	101
155	Early Cancer Diagnosis: Platelet-Leukocyte Hybrid Membrane-Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells (Adv. Funct. Mater. 34/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870241	15.6	
154	The Overall Release of Circulating Tumor Cells by Using Temperature Control and Matrix Metalloproteinase-9 Enzyme on Gelatin Film.. <i>ACS Applied Bio Materials</i> , 2018 , 1, 910-916	4.1	6
153	Highly sensitive and rapid isolation of fetal nucleated red blood cells with microbead-based selective sedimentation for non-invasive prenatal diagnostics. <i>Nanotechnology</i> , 2018 , 29, 434001	3.4	13
152	Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device. <i>Sensors and Actuators A: Physical</i> , 2018 , 279, 313-320	3.9	12
151	Improving the performance through SPR effect by employing Au@SiO ₂ core-shell nanoparticles incorporated TiO ₂ scaffold in efficient hole transport material free perovskite solar cells. <i>Electrochimica Acta</i> , 2018 , 282, 10-15	6.7	14
150	Platelet-Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 986-991	16.4	89
149	Erythrocyte membrane-coated gold nanocages for targeted photothermal and chemical cancer therapy. <i>Nanotechnology</i> , 2018 , 29, 084002	3.4	59
148	Antitumor Platelet-Mimicking Magnetic Nanoparticles. <i>Advanced Functional Materials</i> , 2017 , 27, 1604774	15.6	112
147	Hydrothermal synthesis of TiO ₂ 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. <i>RSC Advances</i> , 2017 , 7, 2358-2364	3.7	26
146	A liquid thermal gradient refractive index lens and using it to trap single living cell in flowing environments. <i>Lab on A Chip</i> , 2017 , 17, 1280-1286	7.2	40
145	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. <i>ACS Nano</i> , 2017 , 11, 3496-3505	16.7	242
144	Theranostics: Antitumor Platelet-Mimicking Magnetic Nanoparticles (Adv. Funct. Mater. 9/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
143	Janus droplet parallel arrangements using a simple Y-channel flow-focusing microfluidic device. <i>Chemical Physics Letters</i> , 2017 , 673, 93-98	2.5	8
142	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 226-235	7.3	25
141	Effective capture and release of circulating tumor cells using core-shell Fe ₃ O ₄ @MnO ₂ nanoparticles. <i>Chemical Physics Letters</i> , 2017 , 668, 35-41	2.5	14

140	W-doped TiO ₂ mesoporous electron transport layer for efficient hole transport material free perovskite solar cells employing carbon counter electrodes. <i>Journal of Power Sources</i> , 2017 , 342, 489-494	8.9	61
139	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 2159-2168	9.5	140
138	High frequency acoustic on-chip integration for particle characterization and manipulation in microfluidics. <i>Applied Physics Letters</i> , 2017 , 111, 163503	3.4	5
137	Significant Radiation Tolerance and Moderate Reduction in Thermal Transport of a Tungsten Nanofilm by Inserting Monolayer Graphene. <i>Advanced Materials</i> , 2017 , 29, 1604623	24	36
136	Effective cancer targeting and imaging using macrophage membrane-camouflaged upconversion nanoparticles. <i>Journal of Biomedical Materials Research - Part A</i> , 2017 , 105, 521-530	5.4	61
135	Contrasting room-temperature hydrogen sensing capabilities of Pt-SnO ₂ and Pt-TiO ₂ composite nanoceramics. <i>Nano Research</i> , 2016 , 9, 3528-3535	10	17
134	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2016 , 104, 2854-60	5.4	22
133	Photocatalytic Degradation of Cell Membrane Coatings for Controlled Drug Release. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1420-7	10.1	40
132	Cancer Cell Membrane-Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. <i>Advanced Materials</i> , 2016 , 28, 3460-6	24	319
131	The Study for Solution-Processed Alkali Metal-Doped Indium-Zinc Oxide Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2016 , 37, 50-52	4.4	19
130	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7862-8	9.5	61
129	Transparent megahertz circuits from solution-processed composite thin films. <i>Nanoscale</i> , 2016 , 8, 7978-837	8.7	2
128	Synthetic nanoparticles camouflaged with biomimetic erythrocyte membranes for reduced reticuloendothelial system uptake. <i>Nanotechnology</i> , 2016 , 27, 085106	3.4	72
127	A composite nanostructured electron-transport layer for stable hole-conductor free perovskite solar cells: design and characterization. <i>Nanoscale</i> , 2016 , 8, 5847-51	7.7	22
126	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO ₂ @Gel-Microbead-Based Size Difference Amplification. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1554-9	10.1	38
125	Ultraviolet-assisted microfluidic generation of ferroelectric composite particles. <i>Biomicrofluidics</i> , 2016 , 10, 024106	3.2	2
124	A flexible, wave-shaped P(VDF-TrFE)/metglas piezoelectric composite for wearable applications. <i>Journal of Applied Physics</i> , 2016 , 120, 234103	2.5	21
123	Microfluidic synthesis of multiferroic Janus particles with disk-like compartments. <i>Applied Physics Letters</i> , 2016 , 108, 073504	3.4	11

122	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. <i>Microfluidics and Nanofluidics</i> , 2016 , 20, 1	2.8	10
121	Enhanced performance in hole transport material free perovskite solar cells via morphology control of PbI ₂ film by solvent treatment. <i>Journal of Power Sources</i> , 2016 , 319, 111-115	8.9	39
120	Application of mesoporous SiO ₂ layer as an insulating layer in high performance hole transport material free CH ₃ NH ₃ PbI ₃ perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 321, 71-75	8.9	33
119	Multi-walled carbon nanotubes act as charge transport channel to boost the efficiency of hole transport material free perovskite solar cells. <i>Journal of Power Sources</i> , 2016 , 332, 24-29	8.9	35
118	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. <i>Nanoscale</i> , 2016 , 8, 18121-18133	7.7	45
117	Multifunctional alumina/titania hybrid blocking layer modified nanocrystalline titania films as efficient photoanodes in dye sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 282, 596-601	8.9	34
116	A general strategy to construct uniform carbon-coated spinel LiMn ₂ O ₄ nanowires for ultrafast rechargeable lithium-ion batteries with a long cycle life. <i>Nanoscale</i> , 2015 , 7, 13173-80	7.7	27
115	Capture and release of cancer cells using electrospun etchable MnO ₂ nanofibers integrated in microchannels. <i>Applied Physics Letters</i> , 2015 , 106, 093703	3.4	36
114	A microfluidic electrostatic separator based on pre-charged droplets. <i>Sensors and Actuators B: Chemical</i> , 2015 , 210, 328-335	8.5	20
113	Capture and Release of Cancer Cells by Combining On-Chip Purification and Off-Chip Enzymatic Treatment. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24001-7	9.5	47
112	Constructed Single-Crystal Rutile TiO ₂ Cluster and Plasmon Synergistic Effect for Dye-Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015 , 180, 705-711	6.7	7
111	Highly sensitive microfluidic flow sensor based on aligned piezoelectric poly(vinylidene fluoride-trifluoroethylene) nanofibers. <i>Applied Physics Letters</i> , 2015 , 107, 242901	3.4	16
110	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. <i>Small</i> , 2015 , 11, 6225-36	11	250
109	A Concentration-Controllable Microfluidic Droplet Mixer for Mercury Ion Detection. <i>Micromachines</i> , 2015 , 6, 915-925	3.3	3
108	Hierarchical donut-shaped LiMn ₂ O ₄ as an advanced cathode material for lithium-ion batteries with excellent rate capability and long cycle life. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8165-8170	13	31
107	Self-amplified piezoelectric nanogenerator with enhanced output performance: The synergistic effect of micropatterned polymer film and interweaved silver nanowires. <i>Applied Physics Letters</i> , 2015 , 106, 163901	3.4	19
106	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. <i>AIP Advances</i> , 2015 , 5, 057134	1.5	15
105	Plasmon-driven reaction controlled by the number of graphene layers and localized surface plasmon distribution during optical excitation. <i>Light: Science and Applications</i> , 2015 , 4, e342-e342	16.7	154

104	A novel glowing electrolyte based on perylene accompany with spectrum compensation function for efficient dye sensitized solar cells. <i>Journal of Power Sources</i> , 2015 , 280, 430-434	8.9	7
103	Scalable integration of indium zinc oxide/photosensitive-nanowire composite thin-film transistors for transparent multicolor photodetectors array. <i>Advanced Materials</i> , 2014 , 26, 2919-24	24	57
102	Capture and release of cancer cells based on sacrificeable transparent MnO ₂ nanospheres thin film. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1420-5	10.1	37
101	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. <i>Carbon</i> , 2014 , 77, 18-24	10.4	23
100	Upconversion induced enhancement of dye sensitized solar cells based on core-shell structured Er^{3+} , Yb^{3+} @SiO ₂ nanoparticles. <i>Nanoscale</i> , 2014 , 6, 2052-5	7.7	56
99	Rings of saturn-like nanoarrays with high number density of hot spots for surface-enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014 , 105, 033515	3.4	20
98	Efficient dye-sensitized solar cells employing highly environmentally-friendly ubiquinone 10 based I ₂ -free electrolyte inspired by photosynthesis. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9007-9010	13	13
97	Self-assembled free-standing polypyrrole nanotube membrane as an efficient FTO- and Pt-free counter electrode for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14-7	9.5	75
96	Introducing an Intermediate Band into Dye-Sensitized Solar Cells by W ⁶⁺ Doping into TiO ₂ Nanocrystalline Photoanodes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16892-16895	3.8	28
95	Layer-by-layer self-assembly of TiO ₂ hierarchical nanosheets with exposed {001} facets as an effective bifunctional layer for dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9144-9	9.5	39
94	The preparation and characterization of 1D multiferroic BFO/P(VDF-TrFE) composite nanofibers using electrospinning. <i>Materials Letters</i> , 2014 , 130, 157-159	3.3	13
93	Modulating the threshold voltage of oxide nanowire field-effect transistors by a Ga ⁺ ion beam. <i>Nano Research</i> , 2014 , 7, 1691-1698	10	19
92	Generation of BiFeO ₃ -Fe ₃ O ₄ Janus particles based on droplet microfluidic method. <i>Applied Physics Letters</i> , 2014 , 105, 042903	3.4	9
91	Transparent, high-performance thin-film transistors with an InGaZnO/aligned-SnO ₂ -nanowire composite and their application in photodetectors. <i>Advanced Materials</i> , 2014 , 26, 7399-404	24	91
90	Side-to-side alignment of gold nanorods with polarization-free characteristic for highly reproducible surface enhanced Raman scattering. <i>Applied Physics Letters</i> , 2014 , 105, 211902	3.4	13
89	Constructing hierarchical fastener-like spheres from anatase TiO ₂ nanosheets with exposed {001} facets for high-performance dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2014 , 262, 86-92	8.9	30
88	Enhance the performance of dye-sensitized solar cells by balancing the light harvesting and electron collecting efficiencies of scattering layer based photoanodes. <i>Electrochimica Acta</i> , 2014 , 132, 25-30	6.7	14
87	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 29-37	2.8	16

86	Morphology transformations in tetrabutyl titanate/acetic acid system and sub-micron/micron hierarchical TiO ₂ for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2013 , 242, 848-854	8.9	24
85	Photoelectrodes modification by N doping for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 93, 202-206	6.7	24
84	Effect of HAc treatment on an open-environment prepared organic redox couple based on hydroquinone/benzoquinone and its application in dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2013 , 107, 695-700	6.7	9
83	An efficient PDPPTPT:PC61BM-based tandem polymer solar cells with a Ca/Ag/MoO ₃ intermediate layer. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 113, 135-139	6.4	13
82	Effects of bis(imidazolium) molten salts with different substituents of imidazolium cations on the performance of efficient dye-sensitized solar cells. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3356-3361	9.5	22
81	Improved performance of dye-sensitized solar cells by trace amount Cr-doped TiO ₂ photoelectrodes. <i>Journal of Power Sources</i> , 2013 , 224, 168-173	8.9	62
80	Lab-on-a-chip for high frequency acoustic characterization. <i>Sensors and Actuators B: Chemical</i> , 2013 , 177, 753-760	8.5	6
79	Gelatin/mesoporous silica nanoparticles as matrix metalloproteinases-degradable drug delivery systems in vivo. <i>Microporous and Mesoporous Materials</i> , 2013 , 182, 165-172	5.3	74
78	Enhanced electrical properties of composite nanostructures using BiFeO ₃ nanotubes and ferroelectric copolymers. <i>Materials Letters</i> , 2013 , 94, 183-185	3.3	10
77	High performance amorphous ZnMgO/carbon nanotube composite thin-film transistors with a tunable threshold voltage. <i>Nanoscale</i> , 2013 , 5, 2830-4	7.7	8
76	Highly uniform, bifunctional core/double-shell-structured [NaYF ₄ :Er ³⁺ , Yb ³⁺ @ SiO ₂ @TiO ₂ hexagonal sub-micropillars for high-performance dye sensitized solar cells. <i>Advanced Materials</i> , 2013 , 25, 2174-80	24	204
75	Magneto-controllable capture and release of cancer cells by using a micropillar device decorated with graphite oxide-coated magnetic nanoparticles. <i>Small</i> , 2013 , 9, 3895-901	11	79
74	Hierarchically porous hybrids of polyaniline nanoparticles anchored on reduced graphene oxide sheets as counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2762-13	13	61
73	Biocompatible TiO ₂ nanoparticle-based cell immunoassay for circulating tumor cells capture and identification from cancer patients. <i>Biomedical Microdevices</i> , 2013 , 15, 617-626	3.7	63
72	Direct tri-constituent co-assembly of highly ordered mesoporous carbon counter electrode for dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 337-41	7.7	52
71	Supramolecular gelatin nanoparticles as matrix metalloproteinase responsive cancer cell imaging probes. <i>Chemical Communications</i> , 2013 , 49, 4462-4	5.8	54
70	A transparent and stable polypyrrole counter electrode for dye-sensitized solar cell. <i>Journal of Power Sources</i> , 2013 , 221, 78-83	8.9	120
69	Understanding the phase separation evolution in efficient P3HT : IC70BA-based bulk-heterojunction polymer solar cells. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 055502	3	3

68	High mobility amorphous InGaZnO thin film transistor with single wall carbon nanotubes enhanced-current path. <i>Applied Physics Letters</i> , 2013 , 103, 223108	3.4	13
67	A low cost mesoporous carbon/SnO ₂ /TiO ₂ nanocomposite counter electrode for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012 , 201, 402-407	8.9	59
66	Synergistic effects of ZnO compact layer and TiCl ₄ post-treatment for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2012 , 204, 257-264	8.9	49
65	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. <i>Microfluidics and Nanofluidics</i> , 2012 , 13, 761-767	2.8	46
64	Rational design of amorphous indium zinc oxide/carbon nanotube hybrid film for unique performance transistors. <i>Nano Letters</i> , 2012 , 12, 3596-601	11.5	78
63	Electrospun TiO ₂ nanofiber-based cell capture assay for detecting circulating tumor cells from colorectal and gastric cancer patients. <i>Advanced Materials</i> , 2012 , 24, 2756-60	24	285
62	Assays: Electrospun TiO ₂ Nanofiber-Based Cell Capture Assay for Detecting Circulating Tumor Cells from Colorectal and Gastric Cancer Patients (Adv. Mater. 20/2012). <i>Advanced Materials</i> , 2012 , 24, 2755-2755	24	3
61	Rapid purification of cell encapsulated hydrogel beads from oil phase to aqueous phase in a microfluidic device. <i>Lab on A Chip</i> , 2011 , 11, 4117-21	7.2	28
60	On-demand preparation of quantum dot-encoded microparticles using a droplet microfluidic system. <i>Lab on A Chip</i> , 2011 , 11, 2561-8	7.2	60
59	One port contour-mode ZnO piezoelectric MEMS resonator. <i>Microelectronic Engineering</i> , 2011 , 88, 3003-3010	3.10	4
58	Valve-based microfluidic droplet micromixer and mercury (II) ion detection. <i>Sensors and Actuators A: Physical</i> , 2011 , 172, 546-551	3.9	16
57	Milliseconds mixing in microfluidic channel using focused surface acoustic wave. <i>Sensors and Actuators B: Chemical</i> , 2011 , 160, 1552-1556	8.5	50
56	The effect of interfacial tension on droplet formation in flow-focusing microfluidic device. <i>Biomedical Microdevices</i> , 2011 , 13, 559-64	3.7	52
55	A novel method for generation of amphiphilic PDMS particles by selective modification. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 453-458	2.8	10
54	Controllable fission of droplets and bubbles by pneumatic valve. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 1343-1349	2.8	6
53	Controllable synthesis of flake-like Al-doped ZnO nanostructures and its application in inverted organic solar cells. <i>Nanoscale Research Letters</i> , 2011 , 6, 546	5	18
52	Rapid microparticle patterning by enhanced dielectrophoresis effect on a double-layer electrode substrate. <i>Electrophoresis</i> , 2011 , 32, 3371-7	3.6	1
51	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 13380		31

50	Integrated microdevice for long-term automated perfusion culture without shear stress and real-time electrochemical monitoring of cells. <i>Analytical Chemistry</i> , 2011 , 83, 9524-30	7.8	26
49	Realization of planar mixing by chaotic velocity in microfluidics. <i>Microelectronic Engineering</i> , 2011 , 88, 959-963	2.5	15
48	Controlling the transmission of ultrahigh frequency bulk acoustic waves in silicon by 45° mirrors. <i>Ultrasonics</i> , 2011 , 51, 532-8	3.5	4
47	Generation of alginate gel particles with AuNPs layers by polydimethylsiloxan template. <i>Biomicrofluidics</i> , 2011 , 5, 26502	3.2	5
46	Valve-based microfluidic device for droplet on-demand operation and static assay. <i>Applied Physics Letters</i> , 2010 , 97, 233701	3.4	42
45	Droplet electric separator microfluidic device for cell sorting. <i>Applied Physics Letters</i> , 2010 , 96, 193701	3.4	66
44	A microfluidic system with embedded acoustic wave sensor for in situ detection of dynamic fluidic properties. <i>Microelectronic Engineering</i> , 2010 , 87, 658-662	2.5	5
43	Microstructures, surface bonding states and room temperature ferromagnetisms of Zn _{0.95} Co _{0.05} O thin films doped with copper. <i>Applied Surface Science</i> , 2010 , 256, 3669-3675	6.7	27
42	A microfluidic system with surface modified piezoelectric sensor for trapping and detection of cancer cells. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 935-9	11.8	33
41	Size-induced metal-to-semiconductor transition and room temperature sequential resonant tunneling in La _{0.5} Sr _{0.5} CoO ₃ quantum dots embedded in La _{0.5} Sr _{0.5} CoO ₃ nanotubes. <i>Applied Physics Letters</i> , 2009 , 95, 083125	3.4	1
40	Effect of annealing temperature on microstructure, optical and electrical properties of sputtered Ba _{0.9} Sr _{0.1} TiO ₃ thin films. <i>Applied Surface Science</i> , 2009 , 255, 9045-9053	6.7	10
39	Preparation and Characterization of Ordered Pb(Zr _{0.53} Ti _{0.47})O ₃ Nanotube Arrays by Sol-Gel Template Method. <i>Advanced Materials Research</i> , 2009 , 79-82, 361-364	0.5	
38	Generation of Janus alginate hydrogel particles with magnetic anisotropy for cell encapsulation. <i>Lab on A Chip</i> , 2009 , 9, 2981-6	7.2	90
37	Numerical calculations of field enhancement and field amplification factors for a vertical carbon nanotube in parallel-plate geometry. <i>Diamond and Related Materials</i> , 2009 , 18, 1381-1386	3.5	17
36	Effect of patterned micro-magnets on superparamagnetic beads in microchannels. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 105008	3	13
35	Ultrasonic particle trapping in microfluidic devices using soft lithography. <i>Applied Physics Letters</i> , 2008 , 92, 213901	3.4	11
34	Integration of ultrasonic transducers in fast prototyping microfluidic devices. <i>Journal of Applied Physics</i> , 2008 , 103, 094701	2.5	6
33	Effect of CoFe ₂ O ₄ content on the dielectric and magnetoelectric properties in Pb(ZrTi)O ₃ /CoFe ₂ O ₄ composite. <i>Journal of Electroceramics</i> , 2008 , 21, 398-400	1.5	29

32	A strong correlation of crystal structure and Curie point of barium titanate ceramics with Ba/Ti ratio of precursor composition. <i>Physica B: Condensed Matter</i> , 2008 , 403, 660-663	2.8	22
31	A micropillar-integrated smart microfluidic device for specific capture and sorting of cells. <i>Electrophoresis</i> , 2007 , 28, 4713-22	3.6	66
30	Characterization of microfluidic fuel cell based on multiple laminar flow. <i>Microelectronic Engineering</i> , 2007 , 84, 1182-1185	2.5	82
29	Fabrication of integrated patterns using lithography and particles assembling techniques. <i>Microelectronic Engineering</i> , 2007 , 84, 1471-1475	2.5	3
28	Effect of K-doping on the dielectric and tunable properties of Ba _{0.6} Sr _{0.4} TiO ₃ thin films prepared by RF magnetron sputtering. <i>Journal of Crystal Growth</i> , 2007 , 306, 22-26	1.6	10
27	Thermal study on structural changes and phase transition in high-energy electron-irradiated blends of P(VDF-TrFE) copolymers. <i>Journal of Materials Science</i> , 2007 , 42, 1184-1189	4.3	3
26	Patterning of hydrophilic micro arrays with superhydrophobic surrounding zones. <i>Microelectronic Engineering</i> , 2007 , 84, 1673-1676	2.5	16
25	Fabrication and characterization of NiB(VDF-TrFE) nanoscaled coaxial cables. <i>Applied Physics Letters</i> , 2007 , 90, 253107	3.4	13
24	Integration of minisolennoids in microfluidic device for magnetic bead-based immunoassays. <i>Journal of Applied Physics</i> , 2007 , 102, 084911	2.5	20
23	Growth of (001) oriented La _{0.5} Sr _{0.5} CoO ₃ films directly on SiO ₂ /Si substrate by pulsed laser deposition. <i>Thin Solid Films</i> , 2006 , 497, 329-332	2.2	5
22	FINITE ELEMENT ANALYSIS OF UNDERWATER CYMBAL TRANSDUCERS WITH LARGE DISPLACEMENT AND FAST RESPONSE TIME. <i>Integrated Ferroelectrics</i> , 2006 , 78, 103-111	0.8	2
21	Enhanced magnetoelectric effect in Terfenol-D and flextensional cymbal laminates. <i>Applied Physics Letters</i> , 2006 , 88, 182906	3.4	33
20	THE EFFECT OF GEOMETRY ON THE DISPLACEMENT AMPLIFICATION AND RESONANCE CHARACTERISTICS OF THE CYMBAL TRANSDUCERS. <i>Integrated Ferroelectrics</i> , 2006 , 80, 383-393	0.8	1
19	Effect of Thickness on the Structure and Properties of ZnO Thin Films Prepared by Pulsed Laser Deposition. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 7860-7865	1.4	53
18	Response of super-paramagnetic beads in microfluidic devices with integrated magnetic micro-columns. <i>Microelectronic Engineering</i> , 2006 , 83, 1655-1659	2.5	18
17	The influence of Mg doping on the dielectric and tunable properties of (Ba _{0.6} Sr _{0.4}) _{0.925} K _{0.075} TiO ₃ thin films fabricated by sol-gel method. <i>Journal of Crystal Growth</i> , 2006 , 290, 121-126	1.6	13
16	Displacement amplification and resonance characteristics of the cymbal transducers. <i>Sensors and Actuators A: Physical</i> , 2005 , 121, 213-220	3.9	23
15	Thermal and structural properties of high-energy electron irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer blends. <i>Materials Chemistry and Physics</i> , 2005 , 91, 348-354	4.4	6

14	Relaxor ferroelectric behavior and structural evaluation in electron-irradiated P (vinylidene fluoride-trifluoroethylene) copolymer blends. <i>Journal of Materials Science</i> , 2005 , 40, 1177-1181	4.3	
13	Dielectric relaxation study in electron-irradiated ferroelectric poly(vinylidene fluoride-trifluoroethylene) (80/20 mol%) copolymer. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2005 , 43, 2972-2980	2.6	3
12	Structural changes and phase behavior of electron-irradiated poly(vinylidene-trifluoroethylene) copolymers. <i>Materials Chemistry and Physics</i> , 2004 , 83, 298-306	4.4	3
11	High electrostriction and relaxor ferroelectric behavior in proton-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymer. <i>Applied Physics Letters</i> , 2004 , 84, 3349-3351	3.4	13
10	Thermally stimulated depolarization current in electron-irradiated poly(vinylidene fluoride-trifluoroethylene) (56/44 mol %) copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 1099-1105	2.6	2
9	Structural changes of 80/20 poly(vinylidene fluoride-trifluoroethylene) copolymer induced by electron irradiation. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 2903-2907	2.9	2
8	Leakage current and relaxation characteristics of electron-irradiated poly(vinylidene fluoride-trifluoroethylene) copolymers. <i>Materials Letters</i> , 2004 , 58, 1064-1070	3.3	3
7	Phase transition induced by thermal and electric fields in electron-irradiated poly (vinylidene fluoride-trifluoroethylene) copolymers. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 2382-2385	3	3
6	A thermal study on phase transition of high-energy electron-irradiated P(VDF-TrFE) 80/20 mol% copolymers. <i>Materials Chemistry and Physics</i> , 2003 , 81, 166-173	4.4	5
5	Ultrasonic transducers using electron-irradiated vinylidene fluoride-trifluoroethylene copolymers. <i>Ultrasonics</i> , 2003 , 41, 223-8	3.5	3
4	Structural evolution and dielectric relaxation behavior of electron-irradiated poly(vinylidene fluoride-trifluoroethylene) 80/20 mol % copolymers. <i>Journal of Applied Physics</i> , 2003 , 94, 5566-5573	2.5	18
3	Reversible phase transition and structure memory effect of metastable phase in electron-irradiated poly(vinylidene-fluoride-trifluoroethylene) copolymers. <i>Applied Physics Letters</i> , 2003 , 82, 2136-2138	3.4	8
2	Factors affecting the performance of the bimorph-based dilatometer for field induced strain measurement of polymer films. <i>Review of Scientific Instruments</i> , 2003 , 74, 1285-1291	1.7	1
1	Effect of γ radiation on structure of P(VDF/TrFE) 80/20 mol% copolymers. <i>European Polymer Journal</i> , 2001 , 37, 471-474	5.2	13