Shi-shang Guo

List of Publications by Year
in descending order

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220	8,715	41344	58581
papers	citations	49 h-index	82 g-index

222	222	222	11181
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Cancer Cell Membraneâ€Coated Upconversion Nanoprobes for Highly Specific Tumor Imaging. Advanced Materials, 2016, 28, 3460-3466.	21.0	420
2	Microfluidic Electroporation-Facilitated Synthesis of Erythrocyte Membrane-Coated Magnetic Nanoparticles for Enhanced Imaging-Guided Cancer Therapy. ACS Nano, 2017, 11, 3496-3505.	14.6	377
3	Red Blood Cell Membrane as a Biomimetic Nanocoating for Prolonged Circulation Time and Reduced Accelerated Blood Clearance. Small, 2015, 11, 6225-6236.	10.0	353
4	Electrospun TiO₂ Nanofiberâ€Based Cell Capture Assay for Detecting Circulating Tumor Cells from Colorectal and Gastric Cancer Patients. Advanced Materials, 2012, 24, 2756-2760.	21.0	315
5	Cancer Cell Membrane Camouflaged Nanoparticles to Realize Starvation Therapy Together with Checkpoint Blockades for Enhancing Cancer Therapy. ACS Nano, 2019, 13, 2849-2857.	14.6	253
6	Highly Uniform, Bifunctional Core/Doubleâ€Shellâ€Structured Î²â€NaYF₄:Er³⁺, Yb³⁺ @ SiO₂@TiO₂ Hexagonal Subâ€microprisms for Highâ€Performance Dye Sensitized Solar Cells. Advanced Materials, 2013, 25, 2174-2180.	21.0	221
7	Erythrocyte Membrane-Coated Upconversion Nanoparticles with Minimal Protein Adsorption for Enhanced Tumor Imaging. ACS Applied Materials & Interfaces, 2017, 9, 2159-2168.	8.0	195
8	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.	16.6	178
9	Plateletâ€“Leukocyte Hybrid Membraneâ€Coated Immunomagnetic Beads for Highly Efficient and Highly Specific Isolation of Circulating Tumor Cells. Advanced Functional Materials, 2018, 28, 1803531.	14.9	154
10	Antitumor Plateletâ€Mimicking Magnetic Nanoparticles. Advanced Functional Materials, 2017, 27, 1604774.	14.9	152
11	Cancer Stem Cellâ€Platelet Hybrid Membraneâ€Coated Magnetic Nanoparticles for Enhanced Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. Advanced Functional Materials, 2019, 29, 1807733.	14.9	137
12	A transparent and stable polypyrrole counter electrode for dye-sensitized solar cell. Journal of Power Sources, 2013, 221, 78-83.	7.8	136
13	Plateletâ€Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. Angewandte Chemie - International Edition, 2018, 57, 986-991.	13.8	132
14	Generation of Janus alginate hydrogel particles with magnetic anisotropy for cell encapsulation. Lab on A Chip, 2009, 9, 2981.	6.0	105
15	Transparent, Highâ€Performance Thinâ€Film Transistors with an InGaZnO/Alignedâ€SnO₂â€Nanowire Composite and their Application in Photodetectors. Advanced Materials, 2014, 26, 7399-7404.	21.0	104
16	Synthetic nanoparticles camouflaged with biomimetic erythrocyte membranes for reduced reticuloendothelial system uptake. Nanotechnology, 2016, 27, 085106.	2.6	99
17	Characterization of microfluidic fuel cell based on multiple laminar flow. Microelectronic Engineering, 2007, 84, 1182-1185.	2.4	92
18	Macrophage membrane-coated iron oxide nanoparticles for enhanced photothermal tumor therapy. Nanotechnology, 2018, 29, 134004.	2.6	91

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19	Erythrocyte membrane-coated gold nanocages for targeted photothermal and chemical cancer therapy. Nanotechnology, 2018, 29, 084002.	2.6	89
20	Gelatinâ€“mesoporous silica nanoparticles as matrix metalloproteinases-degradable drug delivery systems in vivo. Microporous and Mesoporous Materials, 2013, 182, 165-172.	4.4	88
21	Magnetoâ€Controllable Capture and Release of Cancer Cells by Using a Micropillar Device Decorated with Graphite Oxideâ€Coated Magnetic Nanoparticles. Small, 2013, 9, 3895-3901.	10.0	87
22	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, 14-17.	8.0	84
23	Rational Design of Amorphous Indium Zinc Oxide/Carbon Nanotube Hybrid Film for Unique Performance Transistors. Nano Letters, 2012, 12, 3596-3601.	9.1	83
24	Effective cancer targeting and imaging using macrophage membraneâ€camouflaged upconversion nanoparticles. Journal of Biomedical Materials Research - Part A, 2017, 105, 521-530.	4.0	83
25	Droplet electric separator microfluidic device for cell sorting. Applied Physics Letters, 2010, 96, .	3.3	78
26	A micropillarâ€integrated smart microfluidic device for specific capture and sorting of cells. Electrophoresis, 2007, 28, 4713-4722.	2.4	77
27	Rational Design of ZnO:H/ZnO Bilayer Structure for High-Performance Thin-Film Transistors. ACS Applied Materials & Interfaces, 2016, 8, 7862-7868.	8.0	76
28	Improved performance of dye-sensitized solar cells by trace amount Cr-doped TiO2 photoelectrodes. Journal of Power Sources, 2013, 224, 168-173.	7.8	72
29	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.	7.8	71
30	A Biomimetic Nanodecoy Traps Zika Virus To Prevent Viral Infection and Fetal Microcephaly Development. Nano Letters, 2019, 19, 2215-2222.	9.1	69
31	The effect of interfacial tension on droplet formation in flow-focusing microfluidic device. Biomedical Microdevices, 2011, 13, 559-564.	2.8	68
32	Biocompatible TiO2 nanoparticle-based cell immunoassay for circulating tumor cells capture and identification from cancer patients. Biomedical Microdevices, 2013, 15, 617-626.	2.8	66
33	One-pot stirring-free synthesis of silver nanowires with tunable lengths and diameters via a Fe³⁺& Cl^{â^'}co-mediated polyol method and their application as transparent conductive films. Nanoscale, 2016, 8, 18121-18133.	5.6	66
34	On-demand preparation of quantum dot-encoded microparticles using a droplet microfluidic system. Lab on A Chip, 2011, 11, 2561.	6.0	65
35	A low cost mesoporous carbon/SnO2/TiO2 nanocomposite counter electrode for dye-sensitized solar cells. Journal of Power Sources, 2012, 201, 402-407.	7.8	64
36	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.	10.3	64

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37	Supramolecular gelatin nanoparticles as matrix metalloproteinase responsive cancer cell imaging probes. Chemical Communications, 2013, 49, 4462.	4.1	64
38	Scalable Integration of Indium Zinc Oxide/Photosensitiveâ€Nanowire Composite Thinâ€Film Transistors for Transparent Multicolor Photodetectors Array. Advanced Materials, 2014, 26, 2919-2924.	21.0	62
39	Upconversion induced enhancement of dye sensitized solar cells based on coreâ€“shell structured Î²-NaYF₄:Er³⁺, Yb³⁺@SiO₂nanoparticles. Nanoscale, 2014, 6, 2052-2055.	5.6	60
40	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.	7.8	60
41	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.	1.5	58
42	Milliseconds mixing in microfluidic channel using focused surface acoustic wave. Sensors and Actuators B: Chemical, 2011, 160, 1552-1556.	7.8	58
43	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.	7.8	58
44	Enhanced performance of piezoelectric nanogenerator based on aligned nanofibers and three-dimensional interdigital electrodes. Nano Energy, 2019, 65, 103924.	16.0	57
45	Capture and Release of Cancer Cells by Combining On-Chip Purification and Off-Chip Enzymatic Treatment. ACS Applied Materials & Interfaces, 2015, 7, 24001-24007.	8.0	55
46	Selfâ€powered technology based on nanogenerators for biomedical applications. Exploration, 2021, 1, 90-114.	11.0	54
47	Direct tri-constituent co-assembly of highly ordered mesoporous carbon counter electrode for dye-sensitized solar cells. Nanoscale, 2013, 5, 337-341.	5.6	53
48	Synergistic effects of ZnO compact layer and TiCl4 post-treatment for dye-sensitized solar cells. Journal of Power Sources, 2012, 204, 257-264.	7.8	52
49	Generation of disk-like hydrogel beads for cell encapsulation and manipulation using a droplet-based microfluidic device. Microfluidics and Nanofluidics, 2012, 13, 761-767.	2.2	51
50	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.	6.0	51
51	Photocatalytic Degradation of Cell Membrane Coatings for Controlled Drug Release. Advanced Healthcare Materials, 2016, 5, 1420-1427.	7.6	49
52	Significant Radiation Tolerance and Moderate Reduction in Thermal Transport of a Tungsten Nanofilm by Inserting Monolayer Graphene. Advanced Materials, 2017, 29, 1604623.	21.0	49
53	Biomimetic Immunomagnetic Nanoparticles with Minimal Nonspecific Biomolecule Adsorption for Enhanced Isolation of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2019, 11, 28732-28739.	8.0	49
54	Valve-based microfluidic device for droplet on-demand operation and static assay. Applied Physics Letters, 2010, 97, .	3.3	47

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55	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.	7.8	46
56	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.	7.8	46
57	Efficient Capture and High Activity Release of Circulating Tumor Cells by Using TiO₂ Nanorod Arrays Coated with Soluble MnO₂ Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 16327-16334.	8.0	46
58	The acoustic droplet printing of functional tumor microenvironments. Lab on A Chip, 2021, 21, 1604-1612.	6.0	46
59	Efficient Purification and Release of Circulating Tumor Cells by Synergistic Effect of Biomarker and SiO₂@Gelâ€Microbeadâ€Based Size Difference Amplification. Advanced Healthcare Materials, 2016, 5, 1554-1559.	7.6	44
60	Engineered red blood cells for capturing circulating tumor cells with high performance. Nanoscale, 2018, 10, 6014-6023.	5.6	44
61	Two dimensional graphitic carbon nitride quantum dots modified perovskite solar cells and photodetectors with high performances. Journal of Power Sources, 2020, 451, 227825.	7.8	44
62	Capture and release of cancer cells using electrospun etchable MnO2 nanofibers integrated in microchannels. Applied Physics Letters, 2015, 106, .	3.3	41
63	Rapid purification of cell encapsulated hydrogel beads from oil phase to aqueous phase in a microfluidic device. Lab on A Chip, 2011, 11, 4117.	6.0	40
64	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.	3.6	40
65	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, 9144-9149.	8.0	39
66	Capture and Release of Cancer Cells Based on Sacrificeable Transparent MnO₂ Nanospheres Thin Film. Advanced Healthcare Materials, 2014, 3, 1420-1425.	7.6	38
67	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.	7.8	38
68	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.	7.8	37
69	A microfluidic system with surface modified piezoelectric sensor for trapping and detection of cancer cells. Biosensors and Bioelectronics, 2010, 26, 935-939.	10.1	36
70	Enhanced magnetoelectric effect in Terfenol-D and flextensional cymbal laminates. Applied Physics Letters, 2006, 88, 182906.	3.3	34
71	Integrated parallel microfluidic device for simultaneous preparation of multiplex optical-encoded microbeads with distinct quantum dot barcodes. Journal of Materials Chemistry, 2011, 21, 13380.	6.7	34
72	Fetal nucleated red blood cell analysis for non-invasive prenatal diagnostics using a nanostructure microchip. Journal of Materials Chemistry B, 2017, 5, 226-235.	5.8	34

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73	Effect of CoFe2O4 content on the dielectric and magnetoelectric properties in Pb(ZrTi)O3/CoFe2O4 composite. Journal of Electroceramics, 2008, 21, 398-400.	2.0	33
74	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.	3.1	33
75	A general strategy to construct uniform carbon-coated spinel LiMn₂O₄nanowires for ultrafast rechargeable lithium-ion batteries with a long cycle life. Nanoscale, 2015, 7, 13173-13180.	5.6	33
76	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.	10.3	32
77	A Digital Acoustofluidic Pump Powered by Localized Fluid-Substrate Interactions. Analytical Chemistry, 2019, 91, 7097-7103.	6.5	32
78	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.	7.8	31
79	A flexible, wave-shaped P(VDF-TrFE)/metglas piezoelectric composite for wearable applications. Journal of Applied Physics, 2016, 120, .	2.5	31
80	ZnO nanowire-integrated bio-microchips for specific capture and non-destructive release of circulating tumor cells. Nanoscale, 2020, 12, 1455-1463.	5.6	31
81	Microstructures, surface bonding states and room temperature ferromagnetisms of Zn0.95Co0.05O thin films doped with copper. Applied Surface Science, 2010, 256, 3669-3675.	6.1	30
82	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, .	3.3	30
83	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.	8.0	30
84	Surface acoustic wave-based ultraviolet photodetectors: a review. Science Bulletin, 2020, 65, 587-600.	9.0	30
85	Integrated Microdevice for Long-Term Automated Perfusion Culture without Shear Stress and Real-Time Electrochemical Monitoring of Cells. Analytical Chemistry, 2011, 83, 9524-9530.	6.5	29
86	Displacement amplification and resonance characteristics of the cymbal transducers. Sensors and Actuators A: Physical, 2005, 121, 213-220.	4.1	28
87	Morphology transformations in tetrabutyl titanateâ€“acetic acid system and sub-micron/micron hierarchical TiO2 for dye-sensitized solar cells. Journal of Power Sources, 2013, 242, 848-854.	7.8	28
88	Photoelectrodes modification by N doping for dye-sensitized solar cells. Electrochimica Acta, 2013, 93, 202-206.	5.2	28
89	Band structure, effective mass, and carrier mobility of few-layer h-AlN under layer and strain engineering. APL Materials, 2020, 8, .	5.1	28
90	Highly biocompatible and recyclable biomimetic nanoparticles for antibiotic-resistant bacteria infection. Biomaterials Science, 2021, 9, 826-834.	5.4	28

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91	Heterointerface engineering and piezoelectric effect enhanced performance of self-charging supercapacitors power cell. Nano Energy, 2022, 91, 106701.	16.0	28
92	Dual Redox Active Sites Nâ€Œ@Ni‹sub›2‹/sub›P/NiSe‹sub›2‹/sub› Heterostructure Supercapacitor Integrated with Triboelectric Nanogenerator toward Efficient Energy Harvesting and Storage. Advanced Functional Materials, 2022, 32, .	14.9	28
93	Rapid Microfluidic Formation of Uniform Patient-Derived Breast Tumor Spheroids. ACS Applied Bio Materials, 2020, 3, 6273-6283.	4.6	27
94	Acoustic Droplet Printing Tumor Organoids for Modeling Bladder Tumor Immune Microenvironment within a Week. Advanced Healthcare Materials, 2021, 10, e2101312.	7.6	27
95	A Flexible Piezoelectric Nanogenerator Based on Aligned P(VDF-TrFE) Nanofibers. Micromachines, 2019, 10, 302.	2.9	26
96	The acoustofluidic focusing and separation of rare tumor cells using transparent lithium niobate transducers. Lab on A Chip, 2019, 19, 3922-3930.	6.0	26
97	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.	7.8	26
98	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.	2.7	25
99	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, 3356-3361.	8.0	25
100	Ordered mesoporous carbon-decorated reduced graphene oxide as efficient counter electrode for dye-sensitized solar cells. Carbon, 2014, 77, 18-24.	10.3	25
101	Autofluorescent gelatin nanoparticles as imaging probes to monitor matrix metalloproteinase metabolism of cancer cells. Journal of Biomedical Materials Research - Part A, 2016, 104, 2854-2860.	4.0	25
102	A composite nanostructured electron-transport layer for stable hole-conductor free perovskite solar cells: design and characterization. Nanoscale, 2016, 8, 5847-5851.	5.6	25
103	Capture and â€œself-releaseâ€•of circulating tumor cells using metalâ€“organic framework materials. Nanoscale, 2019, 11, 8293-8303.	5.6	25
104	Self-amplified piezoelectric nanogenerator with enhanced output performance: The synergistic effect of micropatterned polymer film and interweaved silver nanowires. Applied Physics Letters, 2015, 106, .	3.3	24
105	One-step fabrication of 3D silver paste electrodes into microfluidic devices for enhanced droplet-based cell sorting. AIP Advances, 2015, 5, .	1.3	24
106	A microfluidic electrostatic separator based on pre-charged droplets. Sensors and Actuators B: Chemical, 2015, 210, 328-335.	7.8	24
107	Contrasting room-temperature hydrogen sensing capabilities of Pt-SnO2 and Pt-TiO2 composite nanoceramics. Nano Research, 2016, 9, 3528-3535.	10.4	22
108	Integration of minisolenoids in microfluidic device for magnetic beadâ€“based immunoassays. Journal of Applied Physics, 2007, 102, 084911.	2.5	21

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109	Disk-like hydrogel bead-based immunofluorescence staining toward identification and observation of circulating tumor cells. Microfluidics and Nanofluidics, 2014, 16, 29-37.	2.2	21
110	â€œRings of saturn-likeâ€•nanoarrays with high number density of hot spots for surface-enhanced Raman scattering. Applied Physics Letters, 2014, 105, 033515.	3.3	21
111	Highly sensitive microfluidic flow sensor based on aligned piezoelectric poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.3	21
112	The Study for Solution-Processed Alkali Metal-Doped Indiumâ€“Zinc Oxide Thin-Film Transistors. IEEE Electron Device Letters, 2016, 37, 50-52.	3.9	21
113	Size-amplified acoustofluidic separation of circulating tumor cells with removable microbeads. Nano Futures, 2018, 2, 025004.	2.2	21
114	On-chip rapid drug screening of leukemia cells by acoustic streaming. Lab on A Chip, 2021, 21, 4005-4015.	6.0	21
115	Structural evolution and dielectric relaxation behavior of electron-irradiated poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	2.5	20
116	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.	3.9	20
117	Modulating the threshold voltage of oxide nanowire field-effect transistors by a Ga+ ion beam. Nano Research, 2014, 7, 1691-1698.	10.4	20
118	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.	2.6	20
119	Biocompatible fabrication of cell-laden calcium alginate microbeads using microfluidic double flow-focusing device. Sensors and Actuators A: Physical, 2018, 279, 313-320.	4.1	20
120	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.	5.2	20
121	Rapid and efficient isolation and detection of circulating tumor cells based on ZnS:Mn2+ quantum dots and magnetic nanocomposites. Talanta, 2019, 202, 230-236.	5.5	20
122	Acoustic Bioprinting of Patientâ€Derived Organoids for Predicting Cancer Therapy Responses. Advanced Healthcare Materials, 2022, 11, e2102784.	7.6	20
123	Response of super-paramagnetic beads in microfluidic devices with integrated magnetic micro-columns. Microelectronic Engineering, 2006, 83, 1655-1659.	2.4	19
124	Emerging Microfluidic Technologies for the Detection of Circulating Tumor Cells and Fetal Nucleated Red Blood Cells. ACS Applied Bio Materials, 2021, 4, 1140-1155.	4.6	19
125	Self-powered pacemaker based on all-in-one flexible piezoelectric nanogenerator. Nano Energy, 2022, 99, 107420.	16.0	19
126	Patterning of hydrophilic micro arrays with superhydrophobic surrounding zones. Microelectronic Engineering, 2007, 84, 1673-1676.	2.4	18

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127	Controllable synthesis of flake-like Al-doped ZnO nanostructures and its application in inverted organic solar cells. Nanoscale Research Letters, 2011, 6, 546.	5.7	18
128	Realization of planar mixing by chaotic velocity in microfluidics. Microelectronic Engineering, 2011, 88, 959-963.	2.4	18
129	Plateletâ€Facilitated Photothermal Therapy of Head and Neck Squamous Cell Carcinoma. Angewandte Chemie, 2018, 130, 998-1003.	2.0	18
130	A valveâ€based microfluidic device for onâ€chip single cell treatments. Electrophoresis, 2019, 40, 961-968.	2.4	18
131	A digital acoustofluidic device for on-demand and oil-free droplet generation. Nanotechnology, 2019, 30, 084001.	2.6	18
132	Precursor engineering for performance enhancement of hole-transport-layer-free carbon-based MAPbBr3 perovskite solar cells. Journal of Alloys and Compounds, 2020, 832, 154902.	5.5	18
133	Acoustic Droplet-Assisted Superhydrophilicâ€“Superhydrophobic Microarray Platform for High-Throughput Screening of Patient-Derived Tumor Spheroids. ACS Applied Materials & Interfaces, 2021, 13, 23489-23501.	8.0	18
134	High mobility amorphous InGaZnO thin film transistor with single wall carbon nanotubes enhanced-current path. Applied Physics Letters, 2013, 103, 223108.	3.3	17
135	Profiling of immuneâ€“cancer interactions at the single-cell level using a microfluidic well array. Analyst, The, 2020, 145, 4138-4147.	3.5	17
136	Scaffold-free generation of heterotypic cell spheroids using acoustofluidics. Lab on A Chip, 2021, 21, 3498-3508.	6.0	17
137	Valve-based microfluidic droplet micromixer and mercury (II) ion detection. Sensors and Actuators A: Physical, 2011, 172, 546-551.	4.1	16
138	TiO₂ nanopillar arrays coated with gelatin film for efficient capture and undamaged release of circulating tumor cells. Nanotechnology, 2019, 30, 335101.	2.6	16
139	Effect of Î³-ray radiation on structure of P(VDF/TrFE) 80/20 mol% copolymers. European Polymer Journal, 2001, 37, 471-474.	5.4	15
140	High electrostriction and relaxor ferroelectric behavior in proton-irradiated poly(vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 Td	3.3	15
141	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.	5.2	15
142	The preparation and characterization of 1D multiferroic BFO/P(VDF-TrFE) composite nanofibers using electrospinning. Materials Letters, 2014, 130, 157-159.	2.6	15
143	Effective capture and release of circulating tumor cells using core-shell Fe3O4@MnO2 nanoparticles. Chemical Physics Letters, 2017, 668, 35-41.	2.6	15
144	Effect of patterned micro-magnets on superparamagnetic beads in microchannels. Journal Physics D: Applied Physics, 2008, 41, 105008.	2.8	14

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145	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.	6.2	14
146	Side-to-side alignment of gold nanorods with polarization-free characteristic for highly reproducible surface enhanced Raman scattering. Applied Physics Letters, 2014, 105, 211902.	3.3	14
147	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.	10.3	14
148	Efficient Welding of Silver Nanowires embedded in a Poly(vinylidene fluoride) Film for Robust Wearable Electronics. Advanced Materials Technologies, 2019, 4, 1800438.	5.8	14
149	The influence of Mg doping on the dielectric and tunable properties of (Ba0.6Sr0.4)0.925K0.075TiO3 thin films fabricated by solâ€“gel method. Journal of Crystal Growth, 2006, 290, 121-126.	1.5	13
150	Fabrication and characterization of Niâˆ•P(VDF-TrFE) nanoscaled coaxial cables. Applied Physics Letters, 2007, 90, 253107.	3.3	13
151	Ultrasonic particle trapping in microfluidic devices using soft lithography. Applied Physics Letters, 2008, 92, .	3.3	13
152	Effect of annealing temperature on microstructure, optical and electrical properties of sputtered Ba0.9Sr0.1TiO3 thin films. Applied Surface Science, 2009, 255, 9045-9053.	6.1	13
153	Microfluidic synthesis of multiferroic Janus particles with disk-like compartments. Applied Physics Letters, 2016, 108, .	3.3	13
154	Nanomaterial-Based Immunocapture Platforms for the Recognition, Isolation, and Detection of Circulating Tumor Cells. Frontiers in Bioengineering and Biotechnology, 2022, 10, 850241.	4.1	12
155	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.	1.5	11
156	A novel method for generation of amphiphilic PDMS particles by selective modification. Microfluidics and Nanofluidics, 2011, 10, 453-458.	2.2	11
157	Generation of BiFeO3-Fe3O4 Janus particles based on droplet microfluidic method. Applied Physics Letters, 2014, 105, .	3.3	11
158	Three-dimensional valve-based controllable PDMS nozzle for dynamic modulation of droplet generation. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	11
159	Modeling cancer metastasis using acoustically bio-printed patient-derived 3D tumor microtissues. Journal of Materials Chemistry B, 2022, 10, 1843-1852.	5.8	11
160	Enhanced electrical properties of composite nanostructures using BiFeO3 nanotubes and ferroelectric copolymers. Materials Letters, 2013, 94, 183-185.	2.6	10
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