

Hsian-Rong Tseng

List of Publications by Year in descending order

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181
papers

19,347
citations

12330

69
h-index

11308

136
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208
all docs

208
docs citations

208
times ranked

19759
citing authors

#	ARTICLE	IF	CITATIONS
1	Exchange-coupled magnetic nanoparticles for efficient heat induction. <i>Nature Nanotechnology</i> , 2011, 6, 418-422.	31.5	1,197
2	A 160-kilobit molecular electronic memory patterned at 1011 bits per square centimetre. <i>Nature</i> , 2007, 445, 414-417.	27.8	1,176
3	In Vivo Magnetic Resonance Detection of Cancer by Using Multifunctional Magnetic Nanocrystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 12387-12391.	13.7	829
4	Linear Artificial Molecular Muscles. <i>Journal of the American Chemical Society</i> , 2005, 127, 9745-9759.	13.7	660
5	Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3084-3088.	13.8	576
6	Two-Dimensional Molecular Electronics Circuits. <i>ChemPhysChem</i> , 2002, 3, 519-525.	2.1	520
7	Multistep Synthesis of a Radiolabeled Imaging Probe Using Integrated Microfluidics. <i>Science</i> , 2005, 310, 1793-1796.	12.6	485
8	Three-Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8970-8973.	13.8	462
9	A reversible molecular valve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10029-10034.	7.1	452
10	An Operational Supramolecular Nanovalve. <i>Journal of the American Chemical Society</i> , 2004, 126, 3370-3371.	13.7	438
11	Biocompatible Heterostructured Nanoparticles for Multimodal Biological Detection. <i>Journal of the American Chemical Society</i> , 2006, 128, 15982-15983.	13.7	332
12	Surface Modulation of Magnetic Nanocrystals in the Development of Highly Efficient Magnetic Resonance Probes for Intracellular Labeling. <i>Journal of the American Chemical Society</i> , 2005, 127, 9992-9993.	13.7	299
13	Specific Capture and Release of Circulating Tumor Cells Using Aptamer-Modified Nanosubstrates. <i>Advanced Materials</i> , 2013, 25, 2368-2373.	21.0	274
14	Self-Confirming AND-Logic Nanoparticles for Fault-Free MRI. <i>Journal of the American Chemical Society</i> , 2010, 132, 11015-11017.	13.7	270
15	Photothermal Effects of Supramolecularly Assembled Gold Nanoparticles for the Targeted Treatment of Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3777-3781.	13.8	253
16	Capture and Stimulated Release of Circulating Tumor Cells on Polymer-Grafted Silicon Nanostructures. <i>Advanced Materials</i> , 2013, 25, 1547-1551.	21.0	245
17	Switchable Neutral Bistable Rotaxanes. <i>Journal of the American Chemical Society</i> , 2004, 126, 9884-9885.	13.7	219
18	Solution-Phase Surface Modification in Intact Poly(dimethylsiloxane) Microfluidic Channels. <i>Analytical Chemistry</i> , 2006, 78, 5543-5551.	6.5	212

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19	Molecular-Mechanical Switch-Based Solid-State Electrochromic Devices. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 6486-6491.	13.8	210
20	A nanomechanical device based on linear molecular motors. <i>Applied Physics Letters</i> , 2004, 85, 5391-5393.	3.3	210
21	A Hybrid Nanoparticle Probe for Dual-Modality Positron Emission Tomography and Magnetic Resonance Imaging. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6259-6262.	13.8	203
22	Structures and Properties of Self-Assembled Monolayers of Bistable [2]Rotaxanes on Au (111) Surfaces from Molecular Dynamics Simulations Validated with Experiment. <i>Journal of the American Chemical Society</i> , 2005, 127, 1563-1575.	13.7	202
23	Nanostructure Embedded Microchips for Detection, Isolation, and Characterization of Circulating Tumor Cells. <i>Accounts of Chemical Research</i> , 2014, 47, 2941-2950.	15.6	202
24	On-Demand Drug Release System for In-Vivo Cancer Treatment through Self-Assembled Magnetic Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4384-4388.	13.8	200
25	Detection of Circulating Tumor Cells and Their Implications as a Biomarker for Diagnosis, Prognostication, and Therapeutic Monitoring in Hepatocellular Carcinoma. <i>Hepatology</i> , 2021, 73, 422-436.	7.3	200
26	Toward Chemically Controlled Nanoscale Molecular Machinery. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1491-1495.	13.8	197
27	T_1 and T_2 Dual-Mode MRI Contrast Agent for Enhancing Accuracy by Engineered Nanomaterials. <i>ACS Nano</i> , 2014, 8, 3393-3401.	14.6	195
28	Polymer Nanofiber-Embedded Microchips for Detection, Isolation, and Molecular Analysis of Single Circulating Melanoma Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 3379-3383.	13.8	194
29	Controllable Donor-Acceptor Neutral [2]Rotaxanes. <i>Chemistry - A European Journal</i> , 2004, 10, 6375-6392.	3.3	185
30	Electrochemically Fabricated Polyaniline Nanoframework Electrode Junctions that Function as Resistive Sensors. <i>Nano Letters</i> , 2004, 4, 1693-1697.	9.1	185
31	Chemical synthesis gets a fillip from molecular recognition and self-assembly processes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4797-4800.	7.1	179
32	The Metastability of an Electrochemically Controlled Nanoscale Machine on Gold Surfaces. <i>ChemPhysChem</i> , 2004, 5, 111-116.	2.1	175
33	A Supramolecular Approach for Preparation of Size-Controlled Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4344-4348.	13.8	172
34	The Role of Physical Environment on Molecular Electromechanical Switching. <i>Chemistry - A European Journal</i> , 2004, 10, 6558-6564.	3.3	170
35	Functionalized Conducting Polymer Nanodots for Enhanced Cell Capturing: The Synergistic Effect of Capture Agents and Nanostructures. <i>Advanced Materials</i> , 2011, 23, 4788-4792.	21.0	164
36	Electrolyte-Gated Transistors Based on Conducting Polymer Nanowire Junction Arrays. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12777-12784.	2.6	158

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37	Redox-Controllable Amphiphilic[2]Rotaxanes. <i>Chemistry - A European Journal</i> , 2004, 10, 155-172.	3.3	152
38	Integrated Microfluidics for Parallel Screening of an In Situ Click Chemistry Library. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 5276-5281.	13.8	147
39	The Moleculeâ€“Electrode Interface in Single-Molecule Transistors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5706-5711.	13.8	142
40	Highâ€“Purity Prostate Circulating Tumor Cell Isolation by a Polymer Nanofiberâ€“Embedded Microchip for Whole Exome Sequencing. <i>Advanced Materials</i> , 2013, 25, 2897-2902.	21.0	142
41	Selective Inhibition of Human Brain Tumor Cells through Multifunctional Quantumâ€“Based siRNA Delivery. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 103-107.	13.8	136
42	Purification of HCC-specific extracellular vesicles on nanosubstrates for early HCC detection by digital scoring. <i>Nature Communications</i> , 2020, 11, 4489.	12.8	134
43	Photoinduced Electron Transfer in a Triad That Can Be Assembled/Disassembled by Two Different External Inputs. Toward Molecular-Level Electrical Extension Cables. <i>Journal of the American Chemical Society</i> , 2002, 124, 12786-12795.	13.7	128
44	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. <i>ACS Nano</i> , 2015, 9, 12174-12181.	14.6	126
45	Distance-dependent magnetic resonance tuning as a versatile MRI sensing platform for biological targets. <i>Nature Materials</i> , 2017, 16, 537-542.	27.5	125
46	A Rapid Pathway Toward a Superb Gene Delivery System: Programming Structural and Functional Diversity into a Supramolecular Nanoparticle Library. <i>ACS Nano</i> , 2010, 4, 6235-6243.	14.6	122
47	Single-Walled Carbon Nanotube Based Molecular Switch Tunnel Junctions. <i>ChemPhysChem</i> , 2003, 4, 1335-1339.	2.1	121
48	Supramolecular Self-Assembly of Dendronized Polymers: A Reversible Control of the Polymer Architectures through Acidâ€“Base Reactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 10707-10715.	13.7	119
49	Programming Thermoresponsiveness of NanoVelcro Substrates Enables Effective Purification of Circulating Tumor Cells in Lung Cancer Patients. <i>ACS Nano</i> , 2015, 9, 62-70.	14.6	118
50	Integrated microfluidic reactors. <i>Nano Today</i> , 2009, 4, 470-481.	11.9	115
51	Enhanced and Differential Capture of Circulating Tumor Cells from Lung Cancer Patients by Microfluidic Assays Using Aptamer Cocktail. <i>Small</i> , 2016, 12, 1072-1081.	10.0	114
52	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004, 4, 2065-2071.	9.1	111
53	Molecular Shuttles Based on Tetrathiafulvalene Units and 1,5-Dioxynaphthalene Ring Systems. <i>Chemistry - A European Journal</i> , 2004, 10, 2555-2564.	3.3	107
54	NanoVelcro Chip for CTC enumeration in prostate cancer patients. <i>Methods</i> , 2013, 64, 144-152.	3.8	107

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55	A Photoactive Molecular Triad as a Nanoscale Power Supply for a Supramolecular Machine. <i>Chemistry - A European Journal</i> , 2005, 11, 6846-6858.	3.3	106
56	A Microfluidic Platform for Systems Pathology: Multiparameter Single-Cell Signaling Measurements of Clinical Brain Tumor Specimens. <i>Cancer Research</i> , 2010, 70, 6128-6138.	0.9	106
57	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. <i>ACS Nano</i> , 2018, 12, 4503-4511.	14.6	103
58	An integrated microfluidic culture device for quantitative analysis of human embryonic stem cells. <i>Lab on A Chip</i> , 2009, 9, 555-563.	6.0	99
59	A comparison of isolated circulating tumor cells and tissue biopsies using whole-genome sequencing in prostate cancer. <i>Oncotarget</i> , 2015, 6, 44781-44793.	1.8	94
60	Infrared Spectroscopic Characterization of [2]Rotaxane Molecular Switch Tunnel Junction Devices. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7609-7612.	2.6	91
61	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009, 9, 2281.	6.0	91
62	Evaluation of synthetic linear motor-molecule actuation energetics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8583-8588.	7.1	89
63	Subclassification of prostate cancer circulating tumor cells by nuclear size reveals very small nuclear circulating tumor cells in patients with visceral metastases. <i>Cancer</i> , 2015, 121, 3240-3251.	4.1	89
64	NanoVelcro rare-cell assays for detection and characterization of circulating tumor cells. <i>Advanced Drug Delivery Reviews</i> , 2018, 125, 78-93.	13.7	89
65	A small MRI contrast agent library of gadolinium(III)-encapsulated supramolecular nanoparticles for improved relaxivity and sensitivity. <i>Biomaterials</i> , 2011, 32, 2160-2165.	11.4	85
66	The therapeutic efficacy of camptothecin-encapsulated supramolecular nanoparticles. <i>Biomaterials</i> , 2012, 33, 1162-1169.	11.4	82
67	Circulating Tumor Cells Predict Occult Metastatic Disease and Prognosis in Pancreatic Cancer. <i>Annals of Surgical Oncology</i> , 2018, 25, 1000-1008.	1.5	77
68	Structural Evidence of Mechanical Shuttling in Condensed Monolayers of Bistable Rotaxane Molecules. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7035-7039.	13.8	70
69	Imprinted NanoVelcro Microchips for Isolation and Characterization of Circulating Fetal Trophoblasts: Toward Noninvasive Prenatal Diagnostics. <i>ACS Nano</i> , 2017, 11, 8167-8177.	14.6	68
70	Helical Chirality in Donor-Acceptor Catenanes. <i>Organic Letters</i> , 2004, 6, 1095-1098.	4.6	66
71	Delivery of Intact Transcription Factor by Using Self-Assembled Supramolecular Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3058-3062.	13.8	66
72	Nanostructured Substrates for Detection and Characterization of Circulating Rare Cells: From Materials Research to Clinical Applications. <i>Advanced Materials</i> , 2020, 32, e1903663.	21.0	66

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73	Electrochemical fabrication of conducting polymer nanowires in an integrated microfluidic system. <i>Chemical Communications</i> , 2006, , 3075.	4.1	65
74	Toward Chemically Controlled Nanoscale Molecular Machinery. <i>Angewandte Chemie</i> , 2003, 115, 1529-1533.	2.0	63
75	Langmuir and Langmuir-Blodgett Films of Amphiphilic Bistable Rotaxanes. <i>Langmuir</i> , 2004, 20, 5809-5828.	3.5	63
76	Photoinduced electron flow in a self-assembling supramolecular extension cable. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 18411-18416.	7.1	62
77	Combined cell surface carbonic anhydrase 9 and CD147 antigens enable high-efficiency capture of circulating tumor cells in clear cell renal cell carcinoma patients. <i>Oncotarget</i> , 2016, 7, 59877-59891.	1.8	62
78	Dynamic Chirality: Keen Selection in the Face of Stereochemical Diversity in Mechanically Bonded Compounds. <i>Chemistry - A European Journal</i> , 2003, 9, 543-556.	3.3	61
79	3D Bioelectronic Interface: Capturing Circulating Tumor Cells onto Conducting Polymer-Based Micro/Nanorod Arrays with Chemical and Topographical Control. <i>Small</i> , 2014, 10, 3012-3017.	10.0	61
80	Pretargeted Positron Emission Tomography Imaging That Employs Supramolecular Nanoparticles with <i>in Vivo</i> Bioorthogonal Chemistry. <i>ACS Nano</i> , 2016, 10, 1417-1424.	14.6	60
81	Hepatocellular Carcinoma-Circulating Tumor Cells Expressing PD-L1 Are Prognostic and Potentially Associated With Response to Checkpoint Inhibitors. <i>Hepatology Communications</i> , 2020, 4, 1527-1540.	4.3	60
82	A novel multimarker assay for the phenotypic profiling of circulating tumor cells in hepatocellular carcinoma. <i>Liver Transplantation</i> , 2018, 24, 946-960.	2.4	58
83	Clinical Applications of NanoVelcro Rare-Cell Assays for Detection and Characterization of Circulating Tumor Cells. <i>Theranostics</i> , 2016, 6, 1425-1439.	10.0	56
84	Polyvalent Scaffolds. Counting the Number of Seats Available for Eosin Guest Molecules in Viologen-Based Host Dendrimers. <i>Journal of the American Chemical Society</i> , 2004, 126, 568-573.	13.7	55
85	Bio-Inspired NanoVilli Chips for Enhanced Capture of Tumor-Derived Extracellular Vesicles: Toward Non-Invasive Detection of Gene Alterations in Non-Small Cell Lung Cancer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13973-13983.	8.0	55
86	Redox-Induced Ring Shuttling and Evidence for Folded Structures in Long and Flexible Two-Station Rotaxanes. <i>Collection of Czechoslovak Chemical Communications</i> , 2003, 68, 1488-1514.	1.0	53
87	CTHRC1 induces non-small cell lung cancer (NSCLC) invasion through upregulating MMP-7/MMP-9. <i>BMC Cancer</i> , 2018, 18, 400.	2.6	52
88	Integrated Microfluidic and Imaging Platform for a Kinase Activity Radioassay to Analyze Minute Patient Cancer Samples. <i>Cancer Research</i> , 2010, 70, 8299-8308.	0.9	51
89	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. <i>Chemical Communications</i> , 2010, 46, 1851-1853.	4.1	51
90	Reduction of Circulating Cancer Cells and Metastases in Breast-Cancer Models by a Potent EphA2-Agonistic Peptide-Drug Conjugate. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 2052-2061.	6.4	49

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91	Emerin Deregulation Links Nuclear Shape Instability to Metastatic Potential. <i>Cancer Research</i> , 2018, 78, 6086-6097.	0.9	49
92	Nanoparticle assisted magnetic resonance imaging of the early reversible stages of amyloid β self-assembly. <i>Chemical Communications</i> , 2008, , 2197.	4.1	48
93	Sexually Dimorphic Crosstalk at the Maternal-Fetal Interface. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e4831-e4847.	3.6	48
94	Microfluidic image cytometry for quantitative single-cell profiling of human pluripotent stem cells in chemically defined conditions. <i>Lab on A Chip</i> , 2010, 10, 1113.	6.0	47
95	Surface confined pseudorotaxanes with electrochemically controllable complexation properties Electronic supplementary information (ESI) available: further experimental and theoretical data. See http://www.rsc.org/suppdata/jm/b3/b306274k/ . <i>Journal of Materials Chemistry</i> , 2003, 13, 2111.	6.7	46
96	Molecular Recognition Enables Nanosubstrate-Mediated Delivery of Gene-Encapsulated Nanoparticles with High Efficiency. <i>ACS Nano</i> , 2014, 8, 4621-4629.	14.6	46
97	Reality of Single Circulating Tumor Cell Sequencing for Molecular Diagnostics in Pancreatic Cancer. <i>Journal of Molecular Diagnostics</i> , 2016, 18, 688-696.	2.8	46
98	Integrated microfluidic devices for combinatorial cell-based assays. <i>Biomedical Microdevices</i> , 2009, 11, 547-555.	2.8	45
99	Powering a Supramolecular Machine with a Photoactive Molecular Triad. <i>Small</i> , 2004, 1, 87-90.	10.0	43
100	Complete Charge Pooling is Prevented in Viologen-Based Dendrimers by Self-Protection. <i>Chemistry - A European Journal</i> , 2004, 10, 6361-6368.	3.3	43
101	The Mortality and Overall Survival Trends of Primary Liver Cancer in the United States. <i>Journal of the National Cancer Institute</i> , 2021, 113, 1531-1541.	6.3	43
102	A Comparison of Shuttling Mechanisms in Two Constitutionally Isomeric Bistable Rotaxane-Based Sunlight-Powered Nanomotors. <i>Australian Journal of Chemistry</i> , 2006, 59, 193.	0.9	42
103	Improving pancreatic cancer diagnosis using circulating tumor cells: prospects for staging and single-cell analysis. <i>Expert Review of Molecular Diagnostics</i> , 2015, 15, 1491-1504.	3.1	42
104	A High-Throughput Platform for Formulating and Screening Multifunctional Nanoparticles Capable of Simultaneous Delivery of Genes and Transcription Factors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 169-173.	13.8	39
105	Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700701.	7.6	38
106	Dual Supramolecular Nanoparticle Vectors Enable CRISPR/Cas9-Mediated Knockin of Retinoschisin 1 Gene: A Potential Nonviral Therapeutic Solution for X-Linked Juvenile Retinoschisis. <i>Advanced Science</i> , 2020, 7, 1903432.	11.2	38
107	Covalent chemistry on nanostructured substrates enables noninvasive quantification of gene rearrangements in circulating tumor cells. <i>Science Advances</i> , 2019, 5, eaav9186.	10.3	36
108	A β -Camera Integrated with a Microfluidic Chip for Radioassays Based on Real-Time Imaging of Glycolysis in Small Cell Populations. <i>Journal of Nuclear Medicine</i> , 2011, 52, 815-821.	5.0	35

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109	Cultured circulating tumor cells and their derived xenografts for personalized oncology. <i>Asian Journal of Urology</i> , 2016, 3, 240-253.	1.2	33
110	A Hydrodynamically Focused Stream as a Dynamic Template for Site-Specific Electrochemical Micropatterning of Conducting Polymers. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 1072-1075.	13.8	31
111	A magnetic resonance tuning sensor for the MRI detection of biological targets. <i>Nature Protocols</i> , 2018, 13, 2664-2684.	12.0	30
112	The Role of Extracellular Vesicles in Disease Progression and Detection of Hepatocellular Carcinoma. <i>Cancers</i> , 2021, 13, 3076.	3.7	30
113	Individually addressable crystalline conducting polymer nanowires in a microelectrode sensor array. <i>Nanotechnology</i> , 2007, 18, 424021.	2.6	29
114	Digital PCR Improves Mutation Analysis in Pancreas Fine Needle Aspiration Biopsy Specimens. <i>PLoS ONE</i> , 2017, 12, e0170897.	2.5	29
115	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. <i>Nanotechnology</i> , 2010, 21, 445603.	2.6	28
116	Microfluidic-Based ¹⁸ F-Labeling of Biomolecules for Immuno-Positron Emission Tomography. <i>Molecular Imaging</i> , 2011, 10, 7290.2010.00043.	1.4	26
117	High Density of Aligned Nanowire Treated with Polydopamine for Efficient Gene Silencing by siRNA According to Cell Membrane Perturbation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18693-18700.	8.0	26
118	State-Level HCC Incidence and Association With Obesity and Physical Activity in the United States. <i>Hepatology</i> , 2021, 74, 1384-1394.	7.3	26
119	Supramolecular nanosubstrate-mediated delivery system enables CRISPR-Cas9 knockin of hemoglobin beta gene for hemoglobinopathies. <i>Science Advances</i> , 2020, 6, .	10.3	25
120	Microfluidic-based ¹⁸ F-labeling of biomolecules for immuno-positron emission tomography. <i>Molecular Imaging</i> , 2011, 10, 168-76, 1-7.	1.4	24
121	Circulating trophoblast cell clusters for early detection of placenta accreta spectrum disorders. <i>Nature Communications</i> , 2021, 12, 4408.	12.8	23
122	Precision oncology using a limited number of cells: optimization of whole genome amplification products for sequencing applications. <i>BMC Cancer</i> , 2017, 17, 457.	2.6	22
123	A Circulating Tumor Cell-RNA Assay for Assessment of Androgen Receptor Signaling Inhibitor Sensitivity in Metastatic Castration-Resistant Prostate Cancer. <i>Theranostics</i> , 2019, 9, 2812-2826.	10.0	20
124	Coupling Nanostructured Microchips with Covalent Chemistry Enables Purification of Sarcoma-Derived Extracellular Vesicles for Downstream Functional Studies. <i>Advanced Functional Materials</i> , 2020, 30, 2003237.	14.9	20
125	Cross-Linked Fluorescent Supramolecular Nanoparticles for Intradermal Controlled Release of Antifungal Drug-A Therapeutic Approach for Onychomycosis. <i>ACS Nano</i> , 2018, 12, 6851-6859.	14.6	19
126	High-throughput miRNA-sequencing of the human placenta: expression throughout gestation. <i>Epigenomics</i> , 2021, 13, 995-1012.	2.1	19

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127	A Soliton Phenomenon in Langmuir Monolayers of Amphiphilic Bistable Rotaxanes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3845-3848.	2.6	18
128	Diagnostic Criteria and LI-RADS for Hepatocellular Carcinoma. <i>Clinical Liver Disease</i> , 2021, 17, 409-413.	2.1	18
129	Microfluidic device for robust generation of two-component liquid-in-air slugs with individually controlled composition. <i>Microfluidics and Nanofluidics</i> , 2010, 9, 933-943.	2.2	17
130	Nano "Fly Paper" Technology for the Capture of Circulating Tumor Cells. <i>Methods in Molecular Biology</i> , 2011, 726, 141-150.	0.9	17
131	Somatic copy number profiling from hepatocellular carcinoma circulating tumor cells. <i>Npj Precision Oncology</i> , 2020, 4, 16.	5.4	16
132	Coupling Lipid Labeling and Click Chemistry Enables Isolation of Extracellular Vesicles for Noninvasive Detection of Oncogenic Gene Alterations. <i>Advanced Science</i> , 2022, 9, e2105853.	11.2	15
133	Nano-vectors for CRISPR/Cas9-mediated genome editing. <i>Nano Today</i> , 2022, 44, 101482.	11.9	15
134	Hyperthermia Effect of Nanoclusters Governed by Interparticle Crystalline Structures. <i>ACS Omega</i> , 2021, 6, 31161-31167.	3.5	14
135	Noninvasive Prenatal Diagnostics: Recent Developments Using Circulating Fetal Nucleated Cells. <i>Current Obstetrics and Gynecology Reports</i> , 2019, 8, 1-8.	0.8	13
136	A circulating tumor cell-based digital assay for the detection of EGFR T790M mutation in advanced non-small cell lung cancer. <i>Journal of Materials Chemistry B</i> , 2020, 8, 5636-5644.	5.8	13
137	Supramolecular Nanosubstrate-Mediated Delivery for Reprogramming and Transdifferentiation of Mammalian Cells. <i>Small</i> , 2015, 11, 2499-2504.	10.0	12
138	Zn-assisted modification of the chemical structure of N-doped carbon dots and their enhanced quantum yield and photostability. <i>Nanoscale Advances</i> , 2022, 4, 2029-2035.	4.6	12
139	Cross-Linked Fluorescent Supramolecular Nanoparticles as Finite Tattoo Pigments with Controllable Intradermal Retention Times. <i>ACS Nano</i> , 2017, 11, 153-162.	14.6	11
140	A dynamic micromixer for arbitrary control of disguised chemical selectivity. <i>Chemical Communications</i> , 2008, , 3426.	4.1	10
141	Discovery and characterization of circulating tumor cell clusters in neuroendocrine tumor patients using nanosubstrate-embedded microchips. <i>Biosensors and Bioelectronics</i> , 2022, 199, 113854.	10.1	10
142	Molecular Switches and Machines Using Arene Building Blocks. , 0, , 574-599.		9
143	Highly Enhanced Enzymatic Activity of Mn-Induced Carbon Dots and Their Application as Colorimetric Sensor Probes. <i>Nanomaterials</i> , 2021, 11, 3046.	4.1	9
144	A differential cell capture assay for evaluating antibody interactions with cell surface targets. <i>Analytical Biochemistry</i> , 2010, 401, 173-181.	2.4	8

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145	Effect of heteroatoms on the optical properties and enzymatic activity of N-doped carbon dots. <i>RSC Advances</i> , 2021, 11, 18776-18782.	3.6	8
146	Supramolecular Nanosubstrate-Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. <i>Small</i> , 2021, 17, 2100546.	10.0	8
147	Circulating Tumor Cell-Based Messenger RNA Scoring System for Prognostication of Hepatocellular Carcinoma: Translating Tissue-Based Messenger RNA Profiling Into a Noninvasive Setting. <i>Liver Transplantation</i> , 2022, 28, 200-214.	2.4	8
148	Sex differences in microRNA expression in first and third trimester human placenta. <i>Biology of Reproduction</i> , 2022, 106, 551-567.	2.7	8
149	Circulating tumor cells: A step toward precision medicine in hepatocellular carcinoma. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , 2022, 37, 1179-1190.	2.8	7
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