

Hsian-Rong Tseng

List of Publications by Citations

Source: <https://exaly.com/author-pdf/1930322/hsian-rong-tseng-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

191
papers

16,859
citations

68
h-index

128
g-index

208
ext. papers

18,217
ext. citations

10
avg, IF

6.07
L-index

#	Paper	IF	Citations
191	A 160-kilobit molecular electronic memory patterned at 10(11) bits per square centimetre. <i>Nature</i> , 2007 , 445, 414-7	50.4	1078
190	Exchange-coupled magnetic nanoparticles for efficient heat induction. <i>Nature Nanotechnology</i> , 2011 , 6, 418-22	28.7	1032
189	In vivo magnetic resonance detection of cancer by using multifunctional magnetic nanocrystals. <i>Journal of the American Chemical Society</i> , 2005 , 127, 12387-91	16.4	768
188	Linear artificial molecular muscles. <i>Journal of the American Chemical Society</i> , 2005 , 127, 9745-59	16.4	617
187	Highly efficient capture of circulating tumor cells by using nanostructured silicon substrates with integrated chaotic micromixers. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3084-8	16.4	521
186	Two-dimensional molecular electronics circuits. <i>ChemPhysChem</i> , 2002 , 3, 519-25	3.2	450
185	Multistep synthesis of a radiolabeled imaging probe using integrated microfluidics. <i>Science</i> , 2005 , 310, 1793-6	33.3	428
184	A reversible molecular valve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 10029-34	11.5	422
183	An operational supramolecular nanovalve. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3370-1	16.4	417
182	Three-dimensional nanostructured substrates toward efficient capture of circulating tumor cells. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8970-3	16.4	416
181	Biocompatible heterostructured nanoparticles for multimodal biological detection. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15982-3	16.4	309
180	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, 9992-3	16.4	287
179	Specific capture and release of circulating tumor cells using aptamer-modified nanosubstrates. <i>Advanced Materials</i> , 2013 , 25, 2368-73	24	244
178	Photothermal effects of supramolecularly assembled gold nanoparticles for the targeted treatment of cancer cells. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3777-81	16.4	236
177	Self-confirming "AND" logic nanoparticles for fault-free MRI. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11015-7	16.4	234
176	Capture and stimulated release of circulating tumor cells on polymer-grafted silicon nanostructures. <i>Advanced Materials</i> , 2013 , 25, 1547-51	24	219
175	Switchable neutral bistable rotaxanes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9884-5	16.4	210

174	Molecular-mechanical switch-based solid-state electrochromic devices. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6486-91	16.4	203
173	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	16.4	189
172	A nanomechanical device based on linear molecular motors. <i>Applied Physics Letters</i> , 2004 , 85, 5391-5393	3.4	189
171	Solution-phase surface modification in intact poly(dimethylsiloxane) microfluidic channels. <i>Analytical Chemistry</i> , 2006 , 78, 5543-51	7.8	187
170	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, 1563-75	16.4	185
169	A hybrid nanoparticle probe for dual-modality positron emission tomography and magnetic resonance imaging. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6259-62	16.4	183
168	Nanostructure embedded microchips for detection, isolation, and characterization of circulating tumor cells. <i>Accounts of Chemical Research</i> , 2014 , 47, 2941-50	24.3	178
167	Polymer nanofiber-embedded microchips for detection, isolation, and molecular analysis of single circulating melanoma cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 3379-83	16.4	175
166	Electrochemically Fabricated Polyaniline Nanoframework Electrode Junctions that Function as Resistive Sensors. <i>Nano Letters</i> , 2004 , 4, 1693-1697	11.5	175
165	Controllable donor-acceptor neutral [2]rotaxanes. <i>Chemistry - A European Journal</i> , 2004 , 10, 6375-92	4.8	173
164	Toward chemically controlled nanoscale molecular machinery. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 1491-5	16.4	171
163	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, 4797-800	11.5	167
162	The role of physical environment on molecular electromechanical switching. <i>Chemistry - A European Journal</i> , 2004 , 10, 6558-64	4.8	165
161	And dual-mode MRI contrast agent for enhancing accuracy by engineered nanomaterials. <i>ACS Nano</i> , 2014 , 8, 3393-401	16.7	162
160	A supramolecular approach for preparation of size-controlled nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4344-8	16.4	161
159	The metastability of an electrochemically controlled nanoscale machine on gold surfaces. <i>ChemPhysChem</i> , 2004 , 5, 111-6	3.2	161
158	Functionalized conducting polymer nanodots for enhanced cell capturing: the synergistic effect of capture agents and nanostructures. <i>Advanced Materials</i> , 2011 , 23, 4788-92	24	153
157	Electrolyte-gated transistors based on conducting polymer nanowire junction arrays. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12777-84	3.4	147

156	Redox-controllable amphiphilic [2]rotaxanes. <i>Chemistry - A European Journal</i> , 2004 , 10, 155-72	4.8	140
155	Integrated microfluidics for parallel screening of an in situ click chemistry library. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 5276-81	16.4	139
154	High-purity prostate circulating tumor cell isolation by a polymer nanofiber-embedded microchip for whole exome sequencing. <i>Advanced Materials</i> , 2013 , 25, 2897-902	24	131
153	Selective inhibition of human brain tumor cells through multifunctional quantum-dot-based siRNA delivery. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 103-7	16.4	127
152	The molecule-electrode interface in single-molecule transistors. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5706-11	16.4	127
151	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, 12786-95	16.4	117
150	Supramolecular self-assembly of dendronized polymers: reversible control of the polymer architectures through acid-base reactions. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10707-15	16.4	116
149	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, 6235-43	16.7	113
148	Single-walled carbon nanotube based molecular switch tunnel junctions. <i>ChemPhysChem</i> , 2003 , 4, 1335-9	9.2	109
147	Programming thermoresponsiveness of NanoVelcro substrates enables effective purification of circulating tumor cells in lung cancer patients. <i>ACS Nano</i> , 2015 , 9, 62-70	16.7	108
146	Integrated Microfluidic Reactors. <i>Nano Today</i> , 2009 , 4, 470-481	17.9	107
145	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. <i>ACS Nano</i> , 2015 , 9, 12174-81	16.7	105
144	Mechanical Shuttling of Linear Motor-Molecules in Condensed Phases on Solid Substrates. <i>Nano Letters</i> , 2004 , 4, 2065-2071	11.5	101
143	A photoactive molecular triad as a nanoscale power supply for a supramolecular machine. <i>Chemistry - A European Journal</i> , 2005 , 11, 6846-58	4.8	99
142	Molecular shuttles based on tetrathiafulvalene units and 1,5-dioxynaphthalene ring systems. <i>Chemistry - A European Journal</i> , 2004 , 10, 2555-64	4.8	98
141	Three-Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells. <i>Angewandte Chemie</i> , 2009 , 121, 9132-9135	3.6	94
140	NanoVelcro Chip for CTC enumeration in prostate cancer patients. <i>Methods</i> , 2013 , 64, 144-52	4.6	92
139	A microfluidic platform for systems pathology: multiparameter single-cell signaling measurements of clinical brain tumor specimens. <i>Cancer Research</i> , 2010 , 70, 6128-38	10.1	92

138	An integrated microfluidic culture device for quantitative analysis of human embryonic stem cells. <i>Lab on A Chip</i> , 2009 , 9, 555-63	7.2	91
137	Infrared spectroscopic characterization of [2]rotaxane molecular switch tunnel junction devices. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7609-12	3.4	87
136	Enhanced and Differential Capture of Circulating Tumor Cells from Lung Cancer Patients by Microfluidic Assays Using Aptamer Cocktail. <i>Small</i> , 2016 , 12, 1072-81	11	86
135	A comparison of isolated circulating tumor cells and tissue biopsies using whole-genome sequencing in prostate cancer. <i>Oncotarget</i> , 2015 , 6, 44781-93	3.3	85
134	A small MRI contrast agent library of gadolinium(III)-encapsulated supramolecular nanoparticles for improved relaxivity and sensitivity. <i>Biomaterials</i> , 2011 , 32, 2160-5	15.6	81
133	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, 8583-8	11.5	81
132	Distance-dependent magnetic resonance tuning as a versatile MRI sensing platform for biological targets. <i>Nature Materials</i> , 2017 , 16, 537-542	27	80
131	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009 , 9, 2281-5	7.2	80
130	OR24-07 Fetal Sex Impacts First Trimester Maternal-Fetal Communication in Humans. <i>Journal of the Endocrine Society</i> , 2020 , 4,	0.4	78
129	Formkontrolle von Halbleiter- und Metalloxid-Nanokristallen durch nichthydrolytische Kolloidverfahren. <i>Angewandte Chemie</i> , 2006 , 118, 3492-3517	3.6	77
128	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. <i>ACS Nano</i> , 2018 , 12, 4503-4511	16.7	76
127	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, 3240-51	6.4	72
126	The therapeutic efficacy of camptothecin-encapsulated supramolecular nanoparticles. <i>Biomaterials</i> , 2012 , 33, 1162-1169	15.6	72
125	NanoVelcro rare-cell assays for detection and characterization of circulating tumor cells. <i>Advanced Drug Delivery Reviews</i> , 2018 , 125, 78-93	18.5	69
124	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	11.2	68
123	Structural evidence of mechanical shuttling in condensed monolayers of bistable rotaxane molecules. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7035-9	16.4	64
122	Delivery of intact transcription factor by using self-assembled supramolecular nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3058-62	16.4	63
121	Electrochemical fabrication of conducting polymer nanowires in an integrated microfluidic system. <i>Chemical Communications</i> , 2006 , 3075-7	5.8	61

120	Langmuir and Langmuir-Blodgett films of amphiphilic bistable rotaxanes. <i>Langmuir</i> , 2004 , 20, 5809-28	4	56
119	On-Demand Drug Release System for In Vivo Cancer Treatment through Self-Assembled Magnetic Nanoparticles. <i>Angewandte Chemie</i> , 2013 , 125, 4480-4484	3.6	55
118	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, 18411-6	11.5	55
117	Molecular-Mechanical Switch-Based Solid-State Electrochromic Devices. <i>Angewandte Chemie</i> , 2004 , 116, 6648-6653	3.6	55
116	Dynamic chirality: keen selection in the face of stereochemical diversity in mechanically bonded compounds. <i>Chemistry - A European Journal</i> , 2003 , 9, 543-56	4.8	55
115	Circulating Tumor Cells Predict Occult Metastatic Disease and Prognosis in Pancreatic Cancer. <i>Annals of Surgical Oncology</i> , 2018 , 25, 1000-1008	3.1	54
114	3D bioelectronic interface: capturing circulating tumor cells onto conducting polymer-based micro/nanorod arrays with chemical and topographical control. <i>Small</i> , 2014 , 10, 3012-7	11	52
113	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, 568-73	16.4	52
112	Clinical Applications of NanoVelcro Rare-Cell Assays for Detection and Characterization of Circulating Tumor Cells. <i>Theranostics</i> , 2016 , 6, 1425-39	12.1	52
111	Toward Chemically Controlled Nanoscale Molecular Machinery. <i>Angewandte Chemie</i> , 2003 , 115, 1529-1533	3.6	51
110	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		51
109	Helical chirality in donor-acceptor catenanes. <i>Organic Letters</i> , 2004 , 6, 1095-8	6.2	51
108	Purification of HCC-specific extracellular vesicles on nanosubstrates for early HCC detection by digital scoring. <i>Nature Communications</i> , 2020 , 11, 4489	17.4	50
107	Imprinted NanoVelcro Microchips for Isolation and Characterization of Circulating Fetal Trophoblasts: Toward Noninvasive Prenatal Diagnostics. <i>ACS Nano</i> , 2017 , 11, 8167-8177	16.7	49
106	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. <i>Chemical Communications</i> , 2010 , 46, 1851-3	5.8	49
105	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	3.3	49
104	Pretargeted Positron Emission Tomography Imaging That Employs Supramolecular Nanoparticles with in Vivo Bioorthogonal Chemistry. <i>ACS Nano</i> , 2016 , 10, 1417-24	16.7	48
103	Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers. <i>Angewandte Chemie</i> , 2011 , 123, 3140-3144	3.6	46

102	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, 1113-9	7.2	45
101	Nanostructured Substrates for Detection and Characterization of Circulating Rare Cells: From Materials Research to Clinical Applications. <i>Advanced Materials</i> , 2020 , 32, e1903663	24	44
100	Surface confined pseudorotaxanes with electrochemically controllable complexation properties. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2111		43
99	Molecular recognition enables nanosubstrate-mediated delivery of gene-encapsulated nanoparticles with high efficiency. <i>ACS Nano</i> , 2014 , 8, 4621-9	16.7	42
98	Integrated microfluidic and imaging platform for a kinase activity radioassay to analyze minute patient cancer samples. <i>Cancer Research</i> , 2010 , 70, 8299-308	10.1	42
97	Complete charge pooling is prevented in viologen-based dendrimers by self-protection. <i>Chemistry - A European Journal</i> , 2004 , 10, 6361-8	4.8	41
96	Integrated microfluidic devices for combinatorial cell-based assays. <i>Biomedical Microdevices</i> , 2009 , 11, 547-55	3.7	40
95	Nanoparticle assisted magnetic resonance imaging of the early reversible stages of amyloid beta self-assembly. <i>Chemical Communications</i> , 2008 , 2197-9	5.8	39
94	Powering a supramolecular machine with a photoactive molecular triad. <i>Small</i> , 2005 , 1, 87-90	11	38
93	CTHRC1 induces non-small cell lung cancer (NSCLC) invasion through upregulating MMP-7/MMP-9. <i>BMC Cancer</i> , 2018 , 18, 400	4.8	37
92	Photothermal Effects of Supramolecularly Assembled Gold Nanoparticles for the Targeted Treatment of Cancer Cells. <i>Angewandte Chemie</i> , 2010 , 122, 3865-3869	3.6	37
91	A Comparison of Shuttling Mechanisms in Two Constitutionally Isomeric Bistable Rotaxane-Based Sunlight-Powered Nanomotors. <i>Australian Journal of Chemistry</i> , 2006 , 59, 193	1.2	37
90	Reality of Single Circulating Tumor Cell Sequencing for Molecular Diagnostics in Pancreatic Cancer. <i>Journal of Molecular Diagnostics</i> , 2016 , 18, 688-696	5.1	37
89	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	9.5	36
88	Improving pancreatic cancer diagnosis using circulating tumor cells: prospects for staging and single-cell analysis. <i>Expert Review of Molecular Diagnostics</i> , 2015 , 15, 1491-504	3.8	36
87	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, 169-73	16.4	36
86	A novel multimarker assay for the phenotypic profiling of circulating tumor cells in hepatocellular carcinoma. <i>Liver Transplantation</i> , 2018 , 24, 946-960	4.5	35
85	Integrated Microfluidics for Parallel Screening of an In Situ Click Chemistry Library. <i>Angewandte Chemie</i> , 2006 , 118, 5402-5407	3.6	35

84	The Molecule-Electrode Interface in Single-Molecule Transistors. <i>Angewandte Chemie</i> , 2003 , 115, 5884-5889	3.3	33
83	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	8.3	32
82	A beta-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, 815-21	8.9	32
81	A Supramolecular Approach for Preparation of Size-Controlled Nanoparticles. <i>Angewandte Chemie</i> , 2009 , 121, 4408-4412	3.6	31
80	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	10.1	29
79	Emerin Dereglulation Links Nuclear Shape Instability to Metastatic Potential. <i>Cancer Research</i> , 2018 , 78, 6086-6097	10.1	29
78	Individually addressable crystalline conducting polymer nanowires in a microelectrode sensor array. <i>Nanotechnology</i> , 2007 , 18, 424021	3.4	27
77	Cultured circulating tumor cells and their derived xenografts for personalized oncology. <i>Asian Journal of Urology</i> , 2016 , 3, 240-253	2.7	27
76	A hydrodynamically focused stream as a dynamic template for site-specific electrochemical micropatterning of conducting polymers. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 1072-5	16.4	26
75	Covalent chemistry on nanostructured substrates enables noninvasive quantification of gene rearrangements in circulating tumor cells. <i>Science Advances</i> , 2019 , 5, eaav9186	14.3	25
74	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. <i>Nanotechnology</i> , 2010 , 21, 445603	3.4	25
73	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, 18693-700	9.5	22
72	A Hybrid Nanoparticle Probe for Dual-Modality Positron Emission Tomography and Magnetic Resonance Imaging. <i>Angewandte Chemie</i> , 2008 , 120, 6355-6358	3.6	21
71	Microfluidic-based 18F-labeling of biomolecules for immuno-positron emission tomography. <i>Molecular Imaging</i> , 2011 , 10, 168-76, 1-7	3.7	21
70	Microfluidic-Based 18F-Labeling of Biomolecules for Immuno-Positron Emission Tomography. <i>Molecular Imaging</i> , 2011 , 10, 7290.2010.00043	3.7	20
69	Delivery of Intact Transcription Factor by Using Self-Assembled Supramolecular Nanoparticles. <i>Angewandte Chemie</i> , 2011 , 123, 3114-3118	3.6	20
68	Digital PCR Improves Mutation Analysis in Pancreas Fine Needle Aspiration Biopsy Specimens. <i>PLoS ONE</i> , 2017 , 12, e0170897	3.7	19
67	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	6	19

66	Precision oncology using a limited number of cells: optimization of whole genome amplification products for sequencing applications. <i>BMC Cancer</i> , 2017 , 17, 457	4.8	17
65	A soliton phenomenon in langmuir monolayers of amphiphilic bistable rotaxanes. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3845-8	3.4	17
64	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	13.6	17
63	Nano "fly paper" technology for the capture of circulating tumor cells. <i>Methods in Molecular Biology</i> , 2011 , 726, 141-50	1.4	16
62	A magnetic resonance tuning sensor for the MRI detection of biological targets. <i>Nature Protocols</i> , 2018 , 13, 2664-2684	18.8	16
61	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	2.8	15
60	Sexually Dimorphic Crosstalk at the Maternal-Fetal Interface. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105,	5.6	15
59	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	12.1	14
58	Supramolecular nanosubstrate-mediated delivery system enables CRISPR-Cas9 knockin of hemoglobin beta gene for hemoglobinopathies. <i>Science Advances</i> , 2020 , 6,	14.3	14
57	Supramolecular nanosubstrate-mediated delivery for reprogramming and transdifferentiation of mammalian cells. <i>Small</i> , 2015 , 11, 2499-504	11	11
56	Double-Effector Nanoparticles: A Synergistic Approach to Apoptotic Hyperthermia. <i>Angewandte Chemie</i> , 2012 , 124, 12650-12653	3.6	11
55	Polymer Nanofiber-Embedded Microchips for Detection, Isolation, and Molecular Analysis of Single Circulating Melanoma Cells. <i>Angewandte Chemie</i> , 2013 , 125, 3463-3467	3.6	11
54	Structural Evidence of Mechanical Shuttling in Condensed Monolayers of Bistable Rotaxane Molecules. <i>Angewandte Chemie</i> , 2005 , 117, 7197-7201	3.6	11
53	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	16.7	11
52	Cross-Linked Fluorescent Supramolecular Nanoparticles as Finite Tattoo Pigments with Controllable Intradermal Retention Times. <i>ACS Nano</i> , 2017 , 11, 153-162	16.7	9
51	A dynamic micromixer for arbitrary control of disguised chemical selectivity. <i>Chemical Communications</i> , 2008 , 3426-8	5.8	9
50	Noninvasive Prenatal Diagnostics: Recent Developments Using Circulating Fetal Nucleated Cells. <i>Current Obstetrics and Gynecology Reports</i> , 2019 , 8, 1-8	0.6	8
49	A differential cell capture assay for evaluating antibody interactions with cell surface targets. <i>Analytical Biochemistry</i> , 2010 , 401, 173-81	3.1	8

48	A Hydrodynamically Focused Stream as a Dynamic Template for Site-Specific Electrochemical Micropatterning of Conducting Polymers. <i>Angewandte Chemie</i> , 2008 , 120, 1088-1091	3.6	8
47	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	7.3	7
46	Somatic copy number profiling from hepatocellular carcinoma circulating tumor cells. <i>Npj Precision Oncology</i> , 2020 , 4, 16	9.8	7
45	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	15.6	7
44	In situ infrared spectroscopic studies of molecular behavior in nanoelectronic devices		6
43	State-Level HCC Incidence and Association With Obesity and Physical Activity in the United States. <i>Hepatology</i> , 2021 , 74, 1384-1394	11.2	6
42	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	9.7	6
41	A microfluidic platform for sequential ligand labeling and cell binding analysis. <i>Biomedical Microdevices</i> , 2007 , 9, 301-5	3.7	5
40	Direct Detection of Beta Particles on a Microfluidic Chip using Position Sensitive APDs 2006 ,		5
39	Molecular Switches and Machines Using Arene Building Blocks 574-599		5
38	The Role of Extracellular Vesicles in Disease Progression and Detection of Hepatocellular Carcinoma. <i>Cancers</i> , 2021 , 13,	6.6	5
37	Structure and function analysis in circulating tumor cells: using nanotechnology to study nuclear size in prostate cancer. <i>American Journal of Clinical and Experimental Urology</i> , 2018 , 6, 43-54	1.6	4
36	Circulating trophoblast cell clusters for early detection of placenta accreta spectrum disorders. <i>Nature Communications</i> , 2021 , 12, 4408	17.4	4
35	RNA Biomarkers: Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection (Adv. Healthcare Mater. 3/2018). <i>Advanced Healthcare Materials</i> , 2018 , 7, 1870013	10.1	3
34	Cell Capture: Capture and Stimulated Release of Circulating Tumor Cells on Polymer-Grafted Silicon Nanostructures (Adv. Mater. 11/2013). <i>Advanced Materials</i> , 2013 , 25, 1514-1514	24	3
33	Titelbild: Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers (Angew. Chem. 13/2011). <i>Angewandte Chemie</i> , 2011 , 123, 2909-2909	3.6	3
32	Performance of an integrated microfluidic chip and position sensitive APD for the detection of beta emitting probes in cell cultures 2007 ,		3
31	Hyperthermia Effect of Nanoclusters Governed by Interparticle Crystalline Structures. <i>ACS Omega</i> , 2021 , 6, 31161-31167	3.9	3

30	Diagnostic Criteria and LI-RADS for Hepatocellular Carcinoma. <i>Clinical Liver Disease</i> , 2021 , 17, 409-413	2.2	3
29	A High-Throughput Platform for Formulating and Screening Multifunctional Nanoparticles Capable of Simultaneous Delivery of Genes and Transcription Factors. <i>Angewandte Chemie</i> , 2016 , 128, 177-181	3.6	3
28	High-throughput miRNA sequencing of the human placenta: expression throughout gestation. <i>Epigenomics</i> , 2021 , 13, 995-1012	4.4	3
27	Coupling Lipid Labeling and Click Chemistry Enables Isolation of Extracellular Vesicles for Noninvasive Detection of Oncogenic Gene Alterations.. <i>Advanced Science</i> , 2022 , e2105853	13.6	3
26	Gene Therapy: Dual Supramolecular Nanoparticle Vectors Enable CRISPR/Cas9-Mediated Knockin of Retinoschisin 1 Gene: A Potential Nonviral Therapeutic Solution for X-Linked Juvenile Retinoschisis (Adv. Sci. 10/2020). <i>Advanced Science</i> , 2020 , 7, 2070054	13.6	2
25	Gram-Positive Bacteria Cell Wall Driven Self-Disassembled Nanovesicles against Methicillin-Resistant Staphylococcus Aureus. <i>Advanced Therapeutics</i> , 2020 , 3, 1900217	4.9	2
24	Supramolecular Nanoparticles for Molecular Diagnostics and Therapeutics 2012 ,		2
23	Optimization of design parameters of a prototype CCD-based lens-coupled imaging system for the detection of beta particles in a microfluidic chip 2007 ,		2
22	Calligraphy on self-assembled monolayer of supramolecules		2
21	Discovery and characterization of circulating tumor cell clusters in neuroendocrine tumor patients using nanosubstrate-embedded microchips.. <i>Biosensors and Bioelectronics</i> , 2021 , 199, 113854	11.8	2
20	Applications of circulating tumor cells for prostate cancer. <i>Asian Journal of Urology</i> , 2016 , 3, 254-259	2.7	2
19	Effect of heteroatoms on the optical properties and enzymatic activity of N-doped carbon dots.. <i>RSC Advances</i> , 2021 , 11, 18776-18782	3.7	2
18	Nano-vectors for CRISPR/Cas9-mediated genome editing. <i>Nano Today</i> , 2022 , 44, 101482	17.9	2
17	A ratiometric photoacoustic imaging approach for semi-quantitative determination of aggregation efficiency in vivo. <i>Nanoscale</i> , 2020 , 12, 18654-18662	7.7	1
16	Nanovelcro Cell-Affinity Assay for Detecting and Characterizing Circulating Tumor Cells 2016 , 201-226		1
15	Tumor Cell Isolation: High-Purity Prostate Circulating Tumor Cell Isolation by a Polymer Nanofiber-Embedded Microchip for Whole Exome Sequencing (Adv. Mater. 21/2013). <i>Advanced Materials</i> , 2013 , 25, 2870-2870	24	1
14	Design and characterization of a biomedical device capable of pico-CI level beta detection for the study of cell metabolism. <i>Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS)</i> , 2008 ,		1
13	Electrochemically Fabricated Conducting Polymer Nanoframework Electrode Junctions That Function as Resistive Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 828, 91		1

12	An Integrated Systems-oriented Approach to Molecular Electronics. <i>Springer Series in Materials Science</i> , 2004 , 2-25	0.9	1
11	Covalent Chemistry-Mediated Multimarker Purification of Circulating Tumor Cells Enables Noninvasive Detection of Molecular Signatures of Hepatocellular Carcinoma. <i>Advanced Materials Technologies</i> , 2021 , 6, 2001056	6.8	1
10	Supramolecular Nanosubstrate-Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. <i>Small</i> , 2021 , 17, e2100546	11	1
9	Mag-spinner: a next-generation Facile, Affordable, Simple, and portable (FAST) magnetic separation system. <i>Nanoscale Advances</i> , 2022 , 4, 792-800	5.1	0
8	Innenmarkt: Polymer Nanofiber-Embedded Microchips for Detection, Isolation, and Molecular Analysis of Single Circulating Melanoma Cells (Angew. Chem. 12/2013). <i>Angewandte Chemie</i> , 2013 , 125, 3619-3619	3.6	
7	Microfluidic image cytometry. <i>Methods in Molecular Biology</i> , 2011 , 706, 191-206	1.4	
6	Cover Picture: Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers (Angew. Chem. Int. Ed. 13/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2857-2857	16.4	
5	A translational phase 2 study of cabozantinib in men with metastatic castration resistant prostate cancer with visceral metastases with characterization of circulating tumor cells and large oncosomes.. <i>Journal of Clinical Oncology</i> , 2014 , 32, e16080-e16080	2.2	
4	Morphological Subsets of Circulating Tumor Cells in Advanced Prostate Cancers: A Potential Biomarker for Patients with Visceral Metastases. <i>FASEB Journal</i> , 2015 , 29, 417.2	0.9	
3	Subclassification of prostate cancer circulating tumor cells (CTCs) by nuclear size reveals very-small nuclear CTCs in patients with visceral metastases.. <i>Journal of Clinical Oncology</i> , 2015 , 33, 11027-11027	2.2	
2	Circulating Rare Cells: Nanostructured Substrates for Detection and Characterization of Circulating Rare Cells: From Materials Research to Clinical Applications (Adv. Mater. 1/2020). <i>Advanced Materials</i> , 2020 , 32, 2070008	24	
1	Sarcoma-Derived Extracellular Vesicles: Coupling Nanostructured Microchips with Covalent Chemistry Enables Purification of Sarcoma-Derived Extracellular Vesicles for Downstream Functional Studies (Adv. Funct. Mater. 49/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070322	15.6	