

Hsian-Rong Tseng

List of Publications by Year in descending order

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Version: 2024-02-01

181
papers

19,347
citations

12330

69
h-index

11308

136
g-index

208
all docs

208
docs citations

208
times ranked

19759
citing authors

#	ARTICLE	IF	CITATIONS
1	Circulating Tumor Cellâ€‘Based Messenger RNA Scoring System for Prognostication of Hepatocellular Carcinoma: Translating Tissueâ€‘Based Messenger RNA Profiling Into a Noninvasive Setting. <i>Liver Transplantation</i> , 2022, 28, 200-214.	2.4	8
2	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
3	Mag-spinner: a next-generation Facile, Affordable, Simple, and porTable (FAST) magnetic separation system. <i>Nanoscale Advances</i> , 2022, 4, 792-800.	4.6	3
4	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
5	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
6	Sex differences in microRNA expression in first and third trimester human placenta. <i>Biology of Reproduction</i> , 2022, 106, 551-567.	2.7	8
7	Nano-vectors for CRISPR/Cas9-mediated genome editing. <i>Nano Today</i> , 2022, 44, 101482.	11.9	15
8	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
9	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
10	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
11	Covalent Chemistryâ€‘Mediated Multimarker Purification of Circulating Tumor Cells Enables Noninvasive Detection of Molecular Signatures of Hepatocellular Carcinoma. <i>Advanced Materials Technologies</i> , 2021, 6, 2001056.	5.8	4
12	Supramolecular Nanosubstrateâ€‘Mediated Delivery for CRISPR/Cas9 Gene Disruption and Deletion. <i>Small</i> , 2021, 17, 2100546.	10.0	8
13	The Role of Extracellular Vesicles in Disease Progression and Detection of Hepatocellular Carcinoma. <i>Cancers</i> , 2021, 13, 3076.	3.7	30
14	Diagnostic Criteria and Liâ€‘RADS for Hepatocellular Carcinoma. <i>Clinical Liver Disease</i> , 2021, 17, 409-413.	2.1	18
15	Stateâ€‘Level HCC Incidence and Association With Obesity and Physical Activity in the United States. <i>Hepatology</i> , 2021, 74, 1384-1394.	7.3	26
16	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
17	High-throughput miRNAâ€‘sequencing of the human placenta: expression throughout gestation. <i>Epigenomics</i> , 2021, 13, 995-1012.	2.1	19
18	Circulating trophoblast cell clusters for early detection of placenta accreta spectrum disorders. <i>Nature Communications</i> , 2021, 12, 4408.	12.8	23

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19	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
20	Hyperthermia Effect of Nanoclusters Governed by Interparticle Crystalline Structures. <i>ACS Omega</i> , 2021, 6, 31161-31167.	3.5	14
21	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
22	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.	21.0	0
23	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.	14.9	0
24	Sexually Dimorphic Crosstalk at the Maternal-Fetal Interface. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020, 105, e4831-e4847.	3.6	48
25	Supramolecular nanosubstrate-mediated delivery system enables CRISPR-Cas9 knockin of hemoglobin beta gene for hemoglobinopathies. <i>Science Advances</i> , 2020, 6, .	10.3	25
26	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
27	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
28	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
29	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.	11.2	2
30	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
31	Somatic copy number profiling from hepatocellular carcinoma circulating tumor cells. <i>Npj Precision Oncology</i> , 2020, 4, 16.	5.4	16
32	A ratiometric photoacoustic imaging approach for semi-quantitative determination of aggregation efficiency <i>in vivo</i> . <i>Nanoscale</i> , 2020, 12, 18654-18662.	5.6	6
33	Gram-Positive Bacteria Cell Wall Driven Self-Disassembled Nanovesicles against Methicillin-Resistant <i>Staphylococcus Aureus</i> . <i>Advanced Therapeutics</i> , 2020, 3, 1900217.	3.2	4
34	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
35	OR24-07 Fetal Sex Impacts First Trimester Maternal-Fetal Communication in Humans. <i>Journal of the Endocrine Society</i> , 2020, 4, .	0.2	0
36	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

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37	Noninvasive Prenatal Diagnostics: Recent Developments Using Circulating Fetal Nucleated Cells. <i>Current Obstetrics and Gynecology Reports</i> , 2019, 8, 1-8.	0.8	13
38	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
39	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
40	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
41	RNA Biomarkers: Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection (<i>Adv. Healthcare Mater.</i> 3/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870013.	7.6	3
42	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
43	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
44	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
45	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
46	Precision-Guided Nanospears for Targeted and High-Throughput Intracellular Gene Delivery. <i>ACS Nano</i> , 2018, 12, 4503-4511.	14.6	103
47	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
48	A magnetic resonance tuning sensor for the MRI detection of biological targets. <i>Nature Protocols</i> , 2018, 13, 2664-2684.	12.0	30
49	Emerin Deregulation Links Nuclear Shape Instability to Metastatic Potential. <i>Cancer Research</i> , 2018, 78, 6086-6097.	0.9	49
50	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
51	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.	0.4	5
52	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
53	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
54	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

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55	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
56	Digital PCR Improves Mutation Analysis in Pancreas Fine Needle Aspiration Biopsy Specimens. <i>PLoS ONE</i> , 2017, 12, e0170897.	2.5	29
57	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
58	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
59	Applications of circulating tumor cells for prostate cancer. <i>Asian Journal of Urology</i> , 2016, 3, 254-259.	1.2	4
60	Cultured circulating tumor cells and their derived xenografts for personalized oncology. <i>Asian Journal of Urology</i> , 2016, 3, 240-253.	1.2	33
61	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
62	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
63	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
64	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
65	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
66	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
67	Supramolecular Nanosubstrate-Mediated Delivery for Reprogramming and Transdifferentiation of Mammalian Cells. <i>Small</i> , 2015, 11, 2499-2504.	10.0	12
68	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
69	Printable Ultrathin Metal Oxide Semiconductor-Based Conformal Biosensors. <i>ACS Nano</i> , 2015, 9, 12174-12181.	14.6	126
70	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
71	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
72	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.	0.5	0

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73	Subclassification of prostate cancer circulating tumor cells (CTCs) by nuclear size reveals very-small nuclear CTCs in patients with visceral metastases.. Journal of Clinical Oncology, 2015, 33, 11027-11027.	1.6	0
74	3D Bioelectronic Interface: Capturing Circulating Tumor Cells onto Conducting Polymer-Based Micro/Nanorod Arrays with Chemical and Topographical Control. Small, 2014, 10, 3012-3017.	10.0	61
75	Molecular Recognition Enables Nanosubstrate-Mediated Delivery of Gene-Encapsulated Nanoparticles with High Efficiency. ACS Nano, 2014, 8, 4621-4629.	14.6	46
76	Nanostructure Embedded Microchips for Detection, Isolation, and Characterization of Circulating Tumor Cells. Accounts of Chemical Research, 2014, 47, 2941-2950.	15.6	202
77	<i>T₁</i> and <i>T₂</i> Dual-Mode MRI Contrast Agent for Enhancing Accuracy by Engineered Nanomaterials. ACS Nano, 2014, 8, 3393-3401.	14.6	195
78	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.. Journal of Clinical Oncology, 2014, 32, e16080-e16080.	1.6	0
79	NanoVelcro Chip for CTC enumeration in prostate cancer patients. Methods, 2013, 64, 144-152.	3.8	107
80	Specific Capture and Release of Circulating Tumor Cells Using Aptamer-Modified Nanosubstrates. Advanced Materials, 2013, 25, 2368-2373.	21.0	274
81	On-Demand Drug Release System for In Vivo Cancer Treatment through Self-Assembled Magnetic Nanoparticles. Angewandte Chemie - International Edition, 2013, 52, 4384-4388.	13.8	200
82	Capture and Stimulated Release of Circulating Tumor Cells on Polymer-Grafted Silicon Nanostructures. Advanced Materials, 2013, 25, 1547-1551.	21.0	245
83	Polymer Nanofiber-Embedded Microchips for Detection, Isolation, and Molecular Analysis of Single Circulating Melanoma Cells. Angewandte Chemie - International Edition, 2013, 52, 3379-3383.	13.8	194
84	High-Purity Prostate Circulating Tumor Cell Isolation by a Polymer Nanofiber-Embedded Microchip for Whole Exome Sequencing. Advanced Materials, 2013, 25, 2897-2902.	21.0	142
85	Tumor Cell Isolation: High-Purity Prostate Circulating Tumor Cell Isolation by a Polymer Nanofiber-Embedded Microchip for Whole Exome Sequencing (Adv. Mater. 21/2013). Advanced Materials, 2013, 25, 2870-2870.	21.0	1
86	Cell Capture: Capture and Stimulated Release of Circulating Tumor Cells on Polymer-Grafted Silicon Nanostructures (Adv. Mater. 11/2013). Advanced Materials, 2013, 25, 1514-1514.	21.0	4
87	The therapeutic efficacy of camptothecin-encapsulated supramolecular nanoparticles. Biomaterials, 2012, 33, 1162-1169.	11.4	82
88	A ¹²⁵ I-Camera Integrated with a Microfluidic Chip for Radioassays Based on Real-Time Imaging of Glycolysis in Small Cell Populations. Journal of Nuclear Medicine, 2011, 52, 815-821.	5.0	35
89	Nano "Fly Paper" Technology for the Capture of Circulating Tumor Cells. Methods in Molecular Biology, 2011, 726, 141-150.	0.9	17
90	Microfluidic-Based ¹⁸ F-Labeling of Biomolecules for Immuno-Positron Emission Tomography. Molecular Imaging, 2011, 10, 7290.2010.00043.	1.4	26

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91	Microfluidic Image Cytometry. <i>Methods in Molecular Biology</i> , 2011, 706, 191-206.	0.9	0
92	Exchange-coupled magnetic nanoparticles for efficient heat induction. <i>Nature Nanotechnology</i> , 2011, 6, 418-422.	31.5	1,197
93	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
94	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
95	Delivery of Intact Transcription Factor by Using Self-Assembled Supramolecular Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3058-3062.	13.8	66
96	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
97	Cover Picture: Highly Efficient Capture of Circulating Tumor Cells by Using Nanostructured Silicon Substrates with Integrated Chaotic Micromixers (<i>Angew. Chem. Int. Ed.</i> 13/2011). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2857-2857.	13.8	0
98	Microfluidic-based 18F-labeling of biomolecules for immuno-positron emission tomography. <i>Molecular Imaging</i> , 2011, 10, 168-76, 1-7.	1.4	24
99	Self-Confirming AND-Logic Nanoparticles for Fault-Free MRI. <i>Journal of the American Chemical Society</i> , 2010, 132, 11015-11017.	13.7	270
100	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
101	Selective Inhibition of Human Brain Tumor Cells through Multifunctional Quantum-Dot-Based siRNA Delivery. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 103-107.	13.8	136
102	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
103	A differential cell capture assay for evaluating antibody interactions with cell surface targets. <i>Analytical Biochemistry</i> , 2010, 401, 173-181.	2.4	8
104	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
105	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
106	A digital microfluidic droplet generator produces self-assembled supramolecular nanoparticles for targeted cell imaging. <i>Nanotechnology</i> , 2010, 21, 445603.	2.6	28
107	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
108	A small library of DNA-encapsulated supramolecular nanoparticles for targeted gene delivery. <i>Chemical Communications</i> , 2010, 46, 1851-1853.	4.1	51

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109	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
110	A Supramolecular Approach for Preparation of Size-Controlled Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4344-4348.	13.8	172
111	Three-Dimensional Nanostructured Substrates toward Efficient Capture of Circulating Tumor Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 8970-8973.	13.8	462
112	Integrated microfluidic reactors. <i>Nano Today</i> , 2009, 4, 470-481.	11.9	115
113	Integrated microfluidic devices for combinatorial cell-based assays. <i>Biomedical Microdevices</i> , 2009, 11, 547-555.	2.8	45
114	An integrated microfluidic device for large-scale in situ click chemistry screening. <i>Lab on A Chip</i> , 2009, 9, 2281.	6.0	91
115	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
116	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
117	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
118	A dynamic micromixer for arbitrary control of disguised chemical selectivity. <i>Chemical Communications</i> , 2008, , 3426.	4.1	10
119	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, , .	0.0	2
120	Nanoparticle assisted magnetic resonance imaging of the early reversible stages of amyloid β self-assembly. <i>Chemical Communications</i> , 2008, , 2197.	4.1	48
121	Optimization of design parameters of a prototype CCD-based lens-coupled imaging system for the detection of beta particles in a microfluidic chip. , 2007, , .		4
122	Individually addressable crystalline conducting polymer nanowires in a microelectrode sensor array. <i>Nanotechnology</i> , 2007, 18, 424021.	2.6	29
123	Performance of an integrated microfluidic chip and position sensitive APD for the detection of beta emitting probes in cell cultures. , 2007, , .		4
124	A 160-kilobit molecular electronic memory patterned at 1011 bits per square centimetre. <i>Nature</i> , 2007, 445, 414-417.	27.8	1,176
125	A microfluidic platform for sequential ligand labeling and cell binding analysis. <i>Biomedical Microdevices</i> , 2007, 9, 301-305.	2.8	6
126	Biocompatible Heterostructured Nanoparticles for Multimodal Biological Detection. <i>Journal of the American Chemical Society</i> , 2006, 128, 15982-15983.	13.7	332

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127	Electrochemical fabrication of conducting polymer nanowires in an integrated microfluidic system. <i>Chemical Communications</i> , 2006, , 3075.	4.1	65
128	Direct Detection of Beta Particles on a Microfluidic Chip using Position Sensitive APDs. , 2006, , .		6
129	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
130	Solution-Phase Surface Modification in Intact Poly(dimethylsiloxane) Microfluidic Channels. <i>Analytical Chemistry</i> , 2006, 78, 5543-5551.	6.5	212
131	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
132	A Soliton Phenomenon in Langmuir Monolayers of Amphiphilic Bistable Rotaxanes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 3845-3848.	2.6	18
133	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, 10707-10715.	13.7	119
134	Reactions in hand. <i>Nano Today</i> , 2006, 1, 6-7.	11.9	1
135	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
136	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
137	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
138	Multistep Synthesis of a Radiolabeled Imaging Probe Using Integrated Microfluidics. <i>Science</i> , 2005, 310, 1793-1796.	12.6	485
139	Linear Artificial Molecular Muscles. <i>Journal of the American Chemical Society</i> , 2005, 127, 9745-9759.	13.7	660
140	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
141	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
142	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
143	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
144	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

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145	Electrolyte-Gated Transistors Based on Conducting Polymer Nanowire Junction Arrays. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12777-12784.	2.6	158
146	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
147	Electrochemically Fabricated Conducting Polymer Nanoframework Electrode Junctions That Function as Resistive Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2004, 828, 91.	0.1	1
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