

Hung-We I Yang

List of Publications by Year in descending order

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59
papers

3,331
citations

147566

31
h-index

143772

57
g-index

59
all docs

59
docs citations

59
times ranked

5296
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetic resonance monitoring of focused ultrasound/magnetic nanoparticle targeting delivery of therapeutic agents to the brain. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15205-15210.	3.3	351
2	Blood-Brain Barrier Disruption with Focused Ultrasound Enhances Delivery of Chemotherapeutic Drugs for Glioblastoma Treatment. Radiology, 2010, 255, 415-425.	3.6	337
3	An electrochemical biosensor to simultaneously detect VEGF and PSA for early prostate cancer diagnosis based on graphene oxide/ssDNA/PLLA nanoparticles. Biosensors and Bioelectronics, 2017, 89, 598-605.	5.3	193
4	Gadolinium-functionalized nanographene oxide for combined drug and microRNA delivery and magnetic resonance imaging. Biomaterials, 2014, 35, 6534-6542.	5.7	152
5	The effectiveness of a magnetic nanoparticle-based delivery system for BCNU in the treatment of gliomas. Biomaterials, 2011, 32, 516-527.	5.7	142
6	EGFR conjugated PEGylated nanographene oxide for targeted chemotherapy and photothermal therapy. Biomaterials, 2013, 34, 7204-7214.	5.7	133
7	Magnetic gold-nanorod/ PNIPAAmMA nanoparticles for dual magnetic resonance and photoacoustic imaging and targeted photothermal therapy. Biomaterials, 2013, 34, 5651-5660.	5.7	123
8	Magnetic-nanoparticle-modified paclitaxel for targeted therapy for prostate cancer. Biomaterials, 2010, 31, 7355-7363.	5.7	115
9	Novel magnetic/ultrasound focusing system enhances nanoparticle drug delivery for glioma treatment. Neuro-Oncology, 2010, 12, 1050-1060.	0.6	115
10	A reusable magnetic graphene oxide-modified biosensor for vascular endothelial growth factor detection in cancer diagnosis. Biosensors and Bioelectronics, 2015, 67, 431-437.	5.3	103
11	Ebola Vaccination Using a DNA Vaccine Coated on PLGA-PLL/PGA Nanoparticles Administered Using a Microneedle Patch. Advanced Healthcare Materials, 2017, 6, 1600750.	3.9	92
12	Non-Invasive Synergistic Treatment of Brain Tumors by Targeted Chemotherapeutic Delivery and Amplified Focused Ultrasound-Hyperthermia Using Magnetic Nanographene Oxide. Advanced Materials, 2013, 25, 3605-3611.	11.1	83
13	Superhigh-magnetization nanocarrier as a doxorubicin delivery platform for magnetic targeting therapy. Biomaterials, 2011, 32, 8999-9010.	5.7	80
14	Self-protecting core-shell magnetic nanoparticles for targeted, traceable, long half-life delivery of BCNU to gliomas. Biomaterials, 2011, 32, 6523-6532.	5.7	70
15	Biodistribution of PEGylated graphene oxide nanoribbons and their application in cancer chemo-photothermal therapy. Carbon, 2014, 74, 83-95.	5.4	69
16	Potential of magnetic nanoparticles for targeted drug delivery. Nanotechnology, Science and Applications, 2012, 5, 73.	4.6	64
17	Reusable sensor based on high magnetization carboxyl-modified graphene oxide with intrinsic hydrogen peroxide catalytic activity for hydrogen peroxide and glucose detection. Biosensors and Bioelectronics, 2013, 41, 172-179.	5.3	61
18	Direct glucose detection in whole blood by colorimetric assay based on glucose oxidase-conjugated graphene oxide/MnO ₂ nanozymes. Analyst, The, 2019, 144, 3038-3044.	1.7	58

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19	Non-invasive screening for early Alzheimer's disease diagnosis by a sensitively immunomagnetic biosensor. <i>Scientific Reports</i> , 2016, 6, 25155.	1.6	55
20	Cooperative Dual-Activity Targeted Nanomedicine for Specific and Effective Prostate Cancer Therapy. <i>ACS Nano</i> , 2012, 6, 1795-1805.	7.3	54
21	Improving thermal stability and efficacy of BCNU in treating glioma cells using PAA-functionalized graphene oxide. <i>International Journal of Nanomedicine</i> , 2012, 7, 1737.	3.3	53
22	A colorimetric immunosensor based on self-linkable dual-nanozyme for ultrasensitive bladder cancer diagnosis and prognosis monitoring. <i>Biosensors and Bioelectronics</i> , 2019, 126, 581-589.	5.3	52
23	Convection-Enhanced Delivery of a Virus-Like Nanotherapeutic Agent with Dual-Modal Imaging for Besiegement and Eradication of Brain Tumors. <i>Theranostics</i> , 2019, 9, 1752-1763.	4.6	43
24	Bioconjugation of recombinant tissue plasminogen activator to magnetic nanocarriers for targeted thrombolysis. <i>International Journal of Nanomedicine</i> , 2012, 7, 5159.	3.3	41
25	Combined Detection of Cancer Cells and a Tumor Biomarker using an Immunomagnetic Sensor for the Improvement of Prostate Cancer Diagnosis. <i>Advanced Materials</i> , 2014, 26, 3662-3666.	11.1	39
26	Self-Assembly DNA Polyplex Vaccine inside Dissolving Microneedles for High-Potency Intradermal Vaccination. <i>Theranostics</i> , 2017, 7, 2593-2605.	4.6	39
27	Functional RNAs: combined assembly and packaging in VLPs. <i>Nucleic Acids Research</i> , 2017, 45, 3519-3527.	6.5	37
28	Maternal Adenine-Induced Chronic Kidney Disease Programs Hypertension in Adult Male Rat Offspring: Implications of Nitric Oxide and Gut Microbiome Derived Metabolites. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7237.	1.8	35
29	Mobile healthcare system based on the combination of a lateral flow pad and smartphone for rapid detection of uric acid in whole blood. <i>Biosensors and Bioelectronics</i> , 2020, 164, 112309.	5.3	35
30	Enhanced therapeutic agent delivery through magnetic resonance imaging-monitored focused ultrasound blood-brain barrier disruption for brain tumor treatment: an overview of the current preclinical status. <i>Neurosurgical Focus</i> , 2012, 32, E4.	1.0	34
31	On-skin glucose-biosensing and on-demand insulin-zinc hexamers delivery using microneedles for syringe-free diabetes management. <i>Chemical Engineering Journal</i> , 2020, 398, 125536.	6.6	34
32	Bioengineering fluorescent virus-like particle/RNAi nanocomplexes act synergistically with temozolomide to eradicate brain tumors. <i>Nanoscale</i> , 2019, 11, 8102-8109.	2.8	31
33	A serological point-of-care test for Zika virus detection and infection surveillance using an enzyme-free vial immunosensor with a smartphone. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111960.	5.3	31
34	Perinatal Resveratrol Therapy Prevents Hypertension Programmed by Maternal Chronic Kidney Disease in Adult Male Offspring: Implications of the Gut Microbiome and Their Metabolites. <i>Biomedicines</i> , 2020, 8, 567.	1.4	31
35	In vivo MR quantification of superparamagnetic iron oxide nanoparticle leakage during low-frequency-ultrasound-induced blood-brain barrier opening in swine. <i>Journal of Magnetic Resonance Imaging</i> , 2011, 34, 1313-1324.	1.9	27
36	A new lateral flow plasmonic biosensor based on gold-viral biomaterialized nanozyme for on-site intracellular glutathione detection to evaluate drug-resistance level. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112325.	5.3	27

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37	Co-Delivery of Docetaxel and p44/42 MAPK siRNA Using PSMA Antibody-Conjugated BSA-PEI Layer-by-Layer Nanoparticles for Prostate Cancer Target Therapy. <i>Macromolecular Bioscience</i> , 2017, 17, 1600421.	2.1	24
38	An epirubicin-conjugated nanocarrier with MRI function to overcome lethal multidrug-resistant bladder cancer. <i>Biomaterials</i> , 2012, 33, 3919-3930.	5.7	23
39	Rapid <i>In Situ</i> MRI Traceable Gel-forming Dual-drug Delivery for Synergistic Therapy of Brain Tumor. <i>Theranostics</i> , 2017, 7, 2524-2536.	4.6	21
40	Fabrication of a Nanogold-Dot Array for Rapid and Sensitive Detection of Vascular Endothelial Growth Factor in Human Serum. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 30845-30852.	4.0	19
41	Magnetic-Composite-Modified Polycrystalline Silicon Nanowire Field-Effect Transistor for Vascular Endothelial Growth Factor Detection and Cancer Diagnosis. <i>Analytical Chemistry</i> , 2014, 86, 9443-9450.	3.2	18
42	Combined Detection of CA19 ⁹ and MUC1 Using a Colorimetric Immunosensor Based on Magnetic Gold Nanorods for Ultrasensitive Risk Assessment of Pancreatic Cancer. <i>ACS Applied Bio Materials</i> , 2019, 2, 4847-4855.	2.3	18
43	Mechanism of Nanoformulated Graphene Oxide-Mediated Human Neutrophil Activation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 40141-40152.	4.0	18
44	Rapid Detection of Gut Microbial Metabolite Trimethylamine N-Oxide for Chronic Kidney Disease Prevention. <i>Biosensors</i> , 2021, 11, 339.	2.3	16
45	Label-Free Biochips for Accurate Detection of Prostate Cancer in the Clinic: Dual Biomarkers and Circulating Tumor Cells. <i>Theranostics</i> , 2017, 7, 4289-4300.	4.6	15
46	Aptasensor designed via the stochastic tunneling-basin hopping method for biosensing of vascular endothelial growth factor. <i>Biosensors and Bioelectronics</i> , 2018, 119, 25-33.	5.3	15
47	Image-Guided Focused-Ultrasound CNS Molecular Delivery: An Implementation via Dynamic Contrast-Enhanced Magnetic-Resonance Imaging. <i>Scientific Reports</i> , 2018, 8, 4151.	1.6	14
48	Diagnosis by simplicity: an aptachip for dopamine capture and accurate detection with a dual colorimetric and fluorometric system. <i>Journal of Materials Chemistry B</i> , 2018, 6, 3387-3394.	2.9	13
49	Glucose/Glutathione Co-triggered Tumor Hypoxia Relief and Chemodynamic Therapy to Enhance Photothermal Therapy in Bladder Cancer. <i>ACS Applied Bio Materials</i> , 2021, 4, 7485-7496.	2.3	12
50	Preparation of water-dispersible poly[aniline-co-sodium N-(1-one-butyric acid) aniline]-zinc oxide nanocomposite for utilization in an electrochemical sensor. <i>Journal of Materials Chemistry</i> , 2012, 22, 13252.	6.7	10
51	Melatonin Prevents Chronic Kidney Disease-Induced Hypertension in Young Rat Treated with Adenine: Implications of Gut Microbiota-Derived Metabolites. <i>Antioxidants</i> , 2021, 10, 1211.	2.2	10
52	1,3-Bis(2-chloroethyl)-1-nitrosourea-loaded bovine serum albumin nanoparticles with dual magnetic resonance–fluorescence imaging for tracking of chemotherapeutic agents. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4065-4075.	3.3	9
53	Sodium Thiosulfate Improves Hypertension in Rats with Adenine-Induced Chronic Kidney Disease. <i>Antioxidants</i> , 2022, 11, 147.	2.2	9
54	Microneedle patches integrated with lateral flow cassettes for blood-free chronic kidney disease point-of-care testing during a pandemic. <i>Biosensors and Bioelectronics</i> , 2022, 208, 114234.	5.3	8

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55	Predicting the Most Stable Aptamer/Target Molecule Complex Configuration Using a Stochastic-Tunnelling Basin-Hopping Discrete Molecular Dynamics Method: A Novel Global Minimum Search Method for a Biomolecule Complex. Computational and Structural Biotechnology Journal, 2019, 17, 812-820.	1.9	6
56	Instrument-Free Detection of FXVD3 Using Vial-Based Immunosensor for Earlier and Faster Urothelial Carcinoma Diagnosis. ACS Sensors, 2020, 5, 928-935.	4.0	6
57	Manipulation of magnetic nanoparticle retention and hemodynamic consequences in microcirculation: assessment by laser speckle imaging. International Journal of Nanomedicine, 2012, 7, 2817.	3.3	4
58	Ovalbumin-Loaded Gelation Microneedles Made of Predictive Formulation by Molecular Dynamics Simulation for Enhancement of Skin Immunization. ACS Biomaterials Science and Engineering, 2019, 5, 6012-6021.	2.6	3
59	Design the RNA aptamer of PCA3 long non-coding ribonucleic acid by the coarse-grained molecular mechanics. Journal of Biomolecular Structure and Dynamics, 2022, 40, 13833-13847.	2.0	1