

Hsiao-Hua Yu

List of Publications by Citations

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79
papers

3,595
citations

33
h-index

59
g-index

88
ext. papers

3,986
ext. citations

8.2
avg, IF

5.13
L-index

#	Paper	IF	Citations
79	Poly(3,4-ethylenedioxythiophene) (PEDOT) nanobiointerfaces: thin, ultrasmooth, and functionalized PEDOT films with in vitro and in vivo biocompatibility. <i>Langmuir</i> , 2008 , 24, 8071-7	4	256
78	Dynamic nuclear polarization with biradicals. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10844-56.4	56.4	254
77	Ultrasensitive Pb ²⁺ detection by glutathione-capped quantum dots. <i>Analytical Chemistry</i> , 2007 , 79, 9452-8	78	226
76	Capture and stimulated release of circulating tumor cells on polymer-grafted silicon nanostructures. <i>Advanced Materials</i> , 2013 , 25, 1547-51	24	219
75	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
74	High-frequency dynamic nuclear polarization using biradicals: a multifrequency EPR lineshape analysis. <i>Journal of Chemical Physics</i> , 2008 , 128, 052302	3.9	153
73	Polydioxothiophene nanodots, nonowires, nano-networks, and tubular structures: the effect of functional groups and temperature in template-free electropolymerization. <i>ACS Nano</i> , 2012 , 6, 3018-26	16.7	117
72	Carboxyfullerene prevents iron-induced oxidative stress in rat brain. <i>Journal of Neurochemistry</i> , 1999 , 72, 1634-40	6	110
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	16.7	108
70	Large enhancement in neurite outgrowth on a cell membrane-mimicking conducting polymer. <i>Nature Communications</i> , 2014 , 5, 4523	17.4	105
69	A proton-doped calix[4]arene-based conducting polymer. <i>Journal of the American Chemical Society</i> , 2003 , 125, 1142-3	16.4	97
68	Ultrathin Cell-Membrane-Mimic Phosphorylcholine Polymer Film Coating Enables Large Improvements for In Vivo Electrochemical Detection. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11802-11806	16.4	92
67	Charge-specific interactions in segmented conducting polymers: an approach to selective ionoresistive responses. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 3700-3	16.4	78
66	Perfluoro-functionalized PEDOT films with controlled morphology as superhydrophobic coatings and biointerfaces with enhanced cell adhesion. <i>Chemical Communications</i> , 2010 , 46, 4731-3	5.8	73
65	Controlled photostability of luminescent nanocrystalline ZnO solution for selective detection of aldehydes. <i>Chemical Communications</i> , 2007 , 1406-8	5.8	73
64	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
63	Facile Syntheses of Dioxothiophene-Based Conjugated Polymers by Direct C ₆₀ Arylation. <i>Macromolecules</i> , 2012 , 45, 7783-7790	5.5	69

62	Controlled protein absorption and cell adhesion on polymer-brush-grafted poly(3,4-ethylenedioxythiophene) films. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 4536-43	9.5	63
61	S,S-Dimethyl Dithiocarbonate: A Convenient Reagent for the Synthesis of Symmetrical and Unsymmetrical Ureas. <i>Journal of Organic Chemistry</i> , 1996 , 61, 4175-4179	4.2	62
60	Electric-field-assisted growth of functionalized poly(3,4-ethylenedioxythiophene) nanowires for label-free protein detection. <i>Small</i> , 2009 , 5, 2611-7	11	61
59	Molecular or Nanoscale Structures? The Deciding Factor of Surface Properties on Functionalized Poly(3,4-ethylenedioxythiophene) Nanorod Arrays. <i>Advanced Functional Materials</i> , 2013 , 23, 3212-3219	15.6	57
58	Efficient synthesis of 3,4-ethylenedioxythiophene (EDOT)-based functional conjugated molecules through direct C-H bond arylations. <i>Organic Letters</i> , 2011 , 13, 4068-71	6.2	55
57	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
56	Ultrastable tetraphenyl-p-phenylenediamine-based covalent organic frameworks as platforms for high-performance electrochemical supercapacitors. <i>Chemical Communications</i> , 2019 , 55, 14890-14893	5.8	52
55	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
54	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
53	Oligoethylene-glycol-functionalized polyoxythiophenes for cell engineering: syntheses, characterizations, and cell compatibilities. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 680-6	9.5	48
52	A Hollow Microtubular Triazine- and Benzobisoxazole-Based Covalent Organic Framework Presenting Sponge-Like Shells That Functions as a High-Performance Supercapacitor. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 1429-1435	4.5	45
51	Trinity DNA detection platform by ultrasoft and functionalized PEDOT biointerfaces. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1414-9	9.5	44
50	Integrated 3D conducting polymer-based bioelectronics for capture and release of circulating tumor cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5103-5110	7.3	40
49	Synthesis of [3 + 3] ketoenamine-tethered covalent organic frameworks (COFs) for high-performance supercapacitance and CO ₂ storage. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 103, 199-208	5.3	40
48	A general synthesis for PEDOT-coated nonconductive materials and PEDOT hollow particles by aqueous chemical polymerization. <i>Small</i> , 2008 , 4, 2051-8	11	36
47	Conductivity Shift of Polyethylenedioxythiophenes in Aqueous Solutions from Side-Chain Charge Perturbation. <i>Macromolecules</i> , 2007 , 40, 6025-6027	5.5	35
46	Synthesis of 1,2,3,4-Bisiminofullerene and 1,2,3,4-Bis(triazolino)fullerene: On the Mechanism of the Addition Reactions of Organic Azides to [60]Fullerene. <i>Chemistry - A European Journal</i> , 1997 , 3, 744-748	4.8	33
45	Magnetic PEDOT hollow capsules with single holes. <i>Chemical Communications</i> , 2009 , 2664-6	5.8	30

44	Step-Economical Syntheses of Functional BODIPY-EDOT π -Conjugated Materials through Direct C-H Arylation. <i>Organic Letters</i> , 2015 , 17, 3198-201	6.2	29
43	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
42	Work function engineering of electrodes via electropolymerization of ethylenedioxythiophenes and its derivatives. <i>Organic Electronics</i> , 2008 , 9, 859-863	3.5	27
41	Molecular actuators - designing actuating materials at the molecular level. <i>IEEE Journal of Oceanic Engineering</i> , 2004 , 29, 692-695	3.3	26
40	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
39	Conducting Polymers π -Thylakoid Hybrid Materials for Water Oxidation and Photoelectric Conversion. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800789	6.4	24
38	Ultrathin Cell-Membrane-Mimic Phosphorylcholine Polymer Film Coating Enables Large Improvements for In Vivo Electrochemical Detection. <i>Angewandte Chemie</i> , 2017 , 129, 11964-11968	3.6	23
37	Controlled hydrogenation of aromatic compounds by platinum nanowire catalysts. <i>RSC Advances</i> , 2012 , 2, 3477	3.7	23
36	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
35	Dynamic Poly(3,4-ethylenedioxythiophene)s Integrate Low Impedance with Redox-Switchable Biofunction. <i>Advanced Functional Materials</i> , 2018 , 28, 1703890	15.6	21
34	Tunable, dynamic and electrically stimulated lectin-carbohydrate recognition on a glycan-grafted conjugated polymer. <i>Chemical Communications</i> , 2012 , 48, 6942-4	5.8	20
33	Rapid construction of an effective antifouling layer on a Au surface via electrodeposition. <i>Chemical Communications</i> , 2014 , 50, 6793-6	5.8	18
32	Electropolymerization of intercalator-grafted conducting polymer for direct and amplified DNA detection. <i>Chemical Communications</i> , 2011 , 47, 1533-5	5.8	18
31	Surface Engineering of Phenylboronic Acid-Functionalized Poly(3,4-ethylenedioxythiophene) for Fast Responsive and Sensitive Glucose Monitoring. <i>ACS Applied Bio Materials</i> , 2018 , 1, 160-167	4.1	17
30	Electropolymerized conjugated polyelectrolytes with tunable work function and hydrophobicity as an anode buffer in organic optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3396-404	9.5	14
29	Electropolymerization and characterization of COOH-functionalized poly(3,4-ethylenedioxythiophene): Ionic exchanges. <i>Electrochimica Acta</i> , 2011 , 56, 10238-10245	6.7	12
28	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
27	In vitro selection of electrochemical peptide probes using bioorthogonal tRNA for influenza virus detection. <i>Chemical Communications</i> , 2018 , 54, 5201-5204	5.8	9

26	Charge-Specific Interactions in Segmented Conducting Polymers: An Approach to Selective Ionoresistive Responses. <i>Angewandte Chemie</i> , 2004 , 116, 3786-3789	3.6	9
25	Organic Electrochemical Transistors/SERS-Active Hybrid Biosensors Featuring Gold Nanoparticles Immobilized on Thiol-Functionalized PEDOT Films. <i>Frontiers in Chemistry</i> , 2019 , 7, 281	5	8
24	Photostable and luminescent ZnO films: synthesis and application as fluorescence resonance energy transfer donors. <i>Chemical Communications</i> , 2008 , 4912-4	5.8	8
23	Direct C ₆ H ₄ Arylation Polymerization to form Anionic Water-Soluble Poly(3,4-ethylenedioxythiophenes) with Higher Yields and Molecular Weights. <i>Synlett</i> , 2018 , 29, 2660-2668	2.3	8
22	Direct Aqueous Dispersion of Carbon Nanotubes Using Nanoparticle-Formed Fullerenes and Self-Assembled Formation of p/n Heterojunctions with Polythiophene. <i>ACS Omega</i> , 2017 , 2, 1625-1632	3.9	7
21	Inexpensive Synthesis of Poly(Ethylenedioxythiophene-Sulfobetaine) Films with High Bio-Antifouling Ability. <i>Journal of the Chinese Chemical Society</i> , 2018 , 65, 149-155	1.5	7
20	Functionalized Conducting Polymer Nano-Networks from Controlled Oxidation Polymerization toward Cell Engineering. <i>Advanced Engineering Materials</i> , 2011 , 13, B423-B427	3.5	7
19	Palladium-catalyzed direct C-H arylations of dioxythiophenes bearing reactive functional groups: a step-economical approach for functional conjugated oligoarenes. <i>Organic and Biomolecular Chemistry</i> , 2015 , 13, 8505-11	3.9	6
18	Nanoscale analysis of a functionalized polythiophene surface by adhesion mapping. <i>Analytical Chemistry</i> , 2014 , 86, 6865-71	7.8	6
17	Low-Molecular-Weight Polyethyleneimine Grafted Polythiophene for Efficient siRNA Delivery. <i>BioMed Research International</i> , 2015 , 2015, 406389	3	6
16	Electrically Responsive, Nanopatterned Surfaces for Triggered Delivery of Biologically Active Molecules into Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1201-1208	9.5	6
15	Tunable Protein/Cell Binding and Interaction with Neurite Outgrowth of Low-Impedance Zwitterionic PEDOTs. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 12362-12372	9.5	5
14	In vitro selection of peptide aptamers using a ribosome display for a conducting polymer. <i>Journal of Bioscience and Bioengineering</i> , 2014 , 117, 501-3	3.3	5
13	Synthesis of MOF525/PEDOT Composites as Microelectrodes for Electrochemical Sensing of Dopamine. <i>Polymers</i> , 2020 , 12,	4.5	4
12	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
11	Nanoscale analysis of functionalized polythiophene surfaces: the effects of electropolymerization methods and thermal treatment. <i>RSC Advances</i> , 2014 , 4, 62666-62672	3.7	3
10	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
9	Hybrid "Kill and Release" Antibacterial Cellulose Papers Obtained via Surface-Initiated Atom Transfer Radical Polymerization.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 7893-7902	4.1	3

8	DNA detection using functionalized conducting polymers. <i>Methods in Molecular Biology</i> , 2011 , 751, 437-524	3
7	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
6	Deprotonation-Induced Conductivity Shift of Polyethylenedioxythiophenes in Aqueous Solutions: The Effects of Side-Chain Length and Polymer Composition. <i>Polymers</i> , 2019 , 11,	4.5 2
5	Self-Cleaning Cotton Obtained after Grafting Thermoresponsive Poly(-vinylcaprolactam) through Surface-Initiated Atom Transfer Radical Polymerization. <i>Polymers</i> , 2020 , 12,	4.5 2
4	Perfluoro-Functionalized Conducting Polymers Enhance Electrocatalytic Oxygen Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1171-1180	6.1 2
3	Mechanotactic Activation of TGF- β by PEDOT Artificial Microenvironments Triggers Epithelial to Mesenchymal Transition. <i>Advanced Biology</i> , 2020 , 4, e1900165	3.5 1
2	Molecular and nano structures of chiral PEDOT derivatives influence the enantio recognition of biomolecules. analysis of chiral recognition. <i>Analyst, The</i> , 2021 , 146, 7118-7125	5 0
1	Layer-by-layer assembly and electrically controlled disassembly of water-soluble Poly(3,4-ethylenedioxythiophene) derivatives for bioelectronic interface. <i>Journal of the Chinese Chemical Society</i> , 2020 , 67, 1602-1610	1.5