

Hsien-Yeh Chen

List of Publications by Year in descending order

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78
papers

1,729
citations

331259

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301761

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81
docs citations

81
times ranked

1614
citing authors

#	ARTICLE	IF	CITATIONS
1	Human platelet lysate (hPL) alters the lineage commitment and paracrine functions of human mesenchymal stem cells via mitochondrial metabolism. <i>Applied Materials Today</i> , 2022, 26, 101264.	2.3	2
2	Fabrication of Low-Fouling Surfaces on Alkyne-Functionalized Poly-(p-xylylenes) Using Click Chemistry. <i>Polymers</i> , 2022, 14, 225.	2.0	2
3	Vapor construction and modification of stem cell-laden multicomponent scaffolds for regenerative therapeutics. <i>Materials Today Bio</i> , 2022, 13, 100213.	2.6	6
4	Hybrid Surface Nanostructures Using Chemical Vapor Deposition and Colloidal Self-Assembled Patterns for Human Mesenchymal Stem Cell Culture—A Preliminary Study. <i>Coatings</i> , 2022, 12, 311.	1.2	2
5	Vapor Sublimation and Deposition to Fabricate a Porous Methyl Propiolate-Functionalized Poly-p-xylylene Material for Copper-Free Click Chemistry. <i>Polymers</i> , 2021, 13, 786.	2.0	1
6	Vapor-Phase Fabrication of a Maleimide-Functionalized Poly-p-xylylene with a Three-Dimensional Structure. <i>Coatings</i> , 2021, 11, 466.	1.2	2
7	Guiding Stem Cell Differentiation and Proliferation Activities Based on Nanometer-Thick Functionalized Poly-p-xylylene Coatings. <i>Coatings</i> , 2021, 11, 582.	1.2	0
8	Vapor-phased fabrication and modulation of cell-laden scaffolding materials. <i>Nature Communications</i> , 2021, 12, 3413.	5.8	11
9	Synergistic and Regulatable Bioremediation Capsules Fabrication Based on Vapor-Phased Encapsulation of Bacillus Bacteria and its Regulator by Poly-p-Xylylene. <i>Polymers</i> , 2021, 13, 41.	2.0	3
10	Vapor-Phase Fabrication of Cell-Accommodated Scaffolds with Multicomponent Functionalization for Neuronal Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100929.	1.9	4
11	Vapor-Phase Fabrication of Cell-Accommodated Scaffolds with Multicomponent Functionalization for Neuronal Applications (<i>Adv. Mater. Interfaces</i> 24/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, .	1.9	0
12	Parylene-Based Porous Scaffold with Functionalized Encapsulation of Platelet-Rich Plasma and Living Stem Cells for Tissue Engineering Applications. <i>ACS Applied Bio Materials</i> , 2020, 3, 7193-7201.	2.3	7
13	Synergistically Enhanced Wound Healing of a Vapor-Constructed Porous Scaffold. <i>ACS Applied Bio Materials</i> , 2020, 3, 5678-5686.	2.3	8
14	Vapor-Stripping and Encapsulating to Construct Particles with Time-Controlled Asymmetry and Anisotropy. <i>Coatings</i> , 2020, 10, 1248.	1.2	2
15	Decoration of Material Surfaces with Complex Physicochemical Signals for Biointerface Applications. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1836-1851.	2.6	19
16	Fabrication of Asymmetrical and Gradient Hierarchy Structures of Poly-p-xylylenes on Multiscale Regimes Based on a Vapor-Phase Sublimation and Deposition Process. <i>Chemistry of Materials</i> , 2020, 32, 1120-1130.	3.2	18
17	Vapor-Deposited Reactive Coating with Chemically and Topographically Erasable Properties. <i>Polymers</i> , 2019, 11, 1595.	2.0	3
18	Human Adipose-Derived Stem Cell Secreted Extracellular Matrix Incorporated into Electrospun Poly(Lactic-co-Glycolic Acid) Nanofibrous Dressing for Enhancing Wound Healing. <i>Polymers</i> , 2019, 11, 1609.	2.0	23

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19	Characterization of Mechanical Stability and Immunological Compatibility for Functionalized Modification Interfaces. <i>Scientific Reports</i> , 2019, 9, 7644.	1.6	3
20	Clickable and Photo-Erasable Surface Functionalities by Using Vapor-Deposited Polymer Coatings. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 1753-1761.	2.6	5
21	Editorial: Polymer Surface Chemistry: Biomolecular Engineering and Biointerfaces. <i>Frontiers in Chemistry</i> , 2019, 7, 271.	1.8	2
22	Defined cell adhesion for silicon-based implant materials by using vapor-deposited functional coatings. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 175, 545-553.	2.5	2
23	Immobilization of functional polymers on poly(4-benzoyl- <i>p</i> -xylylene-co- <i>p</i> -xylylene) films via photochemical conjugation for modulation of cell adhesion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 174, 360-366.	2.5	2
24	Fabrication of Functional Polymer Structures through Bottom-Up Selective Vapor Deposition from Bottom-Up Conductive Templates. <i>Langmuir</i> , 2018, 34, 4651-4657.	1.6	2
25	Surface modification: activation and deactivation of osteogenic differentiation based on detachable growth factor protein. <i>Journal of Materials Chemistry B</i> , 2018, 6, 236-240.	2.9	3
26	Enhanced Growth Activities of Stem Cell Spheroids Based on a Durable and Chemically Defined Surface Modification Coating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31882-31891.	4.0	10
27	Vapor sublimation and deposition to build porous particles and composites. <i>Nature Communications</i> , 2018, 9, 2564.	5.8	37
28	Construction and control of 3D porous structure based on vapor deposition on sublimation solids. <i>Applied Materials Today</i> , 2017, 7, 77-81.	2.3	18
29	Biointerfaces: Synergistically Controlled Stemness and Multilineage Differentiation Capacity of Stem Cells on Multifunctional Biointerfaces (<i>Adv. Mater. Interfaces</i> 11/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	0
30	Vapor-phase synthesis of poly(<i>p</i> -xylylene) membranes for gas separations. <i>Journal of Membrane Science</i> , 2017, 539, 101-107.	4.1	6
31	Synergistically Controlled Stemness and Multilineage Differentiation Capacity of Stem Cells on Multifunctional Biointerfaces. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700243.	1.9	11
32	Topologically Controlled Cell Differentiation Based on Vapor-Deposited Polymer Coatings. <i>Langmuir</i> , 2017, 33, 8943-8949.	1.6	11
33	Multifunctional nanoparticles with controllable dimensions and tripled orthogonal reactivity. <i>Nanoscale</i> , 2017, 9, 14787-14791.	2.8	11
34	Stepwise and Programmable Cell Differentiation Pathways of Controlled Functional Biointerfaces. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 1815-1821.	2.6	8
35	Multifunctional Surface Modification: Facile and Flexible Reactivity toward a Precisely Controlled Biointerface. <i>Macromolecular Bioscience</i> , 2017, 17, 1600322.	2.1	6
36	Controlling multi-function of biomaterials interfaces based on multiple and competing adsorption of functional proteins. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 130-137.	2.5	19

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37	Development of Antifouling Hyperbranched Polyglycerol Layers on Hydroxyl Poly- <i>p</i> -xylylene Coatings. <i>Langmuir</i> , 2017, 33, 14657-14662.	1.6	15
38	Micro- and nano-surface structures based on vapor-deposited polymers. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1366-1374.	1.5	10
39	Multifunctional and Continuous Gradients of Biointerfaces Based on Dual Reverse Click Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 13812-13818.	4.0	27
40	Vapor-based coatings for antibacterial and osteogenic functionalization and the immunological compatibility. <i>Materials Science and Engineering C</i> , 2016, 69, 283-291.	3.8	8
41	Enhanced bone morphogenic property of parylene-C. <i>Biomaterials Science</i> , 2016, 4, 1754-1760.	2.6	11
42	Fabrication of multipotent poly- <i>para</i> -xylylene particles in controlled nanoscopic dimensions. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 139, 259-268.	2.5	7
43	Electrically charged selectivity of poly- <i>para</i> -xylylene deposition. <i>Chemical Communications</i> , 2016, 52, 3022-3025.	2.2	7
44	Multifaceted and route-controlled "click" reactions based on vapor-deposited coatings. <i>Biomaterials Science</i> , 2016, 4, 265-271.	2.6	13
45	Switching the Biointerface of Displaceable Poly- <i>p</i> -xylylene Coatings. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 14431-14438.	4.0	14
46	Tunable coverage of immobilized biomolecules for biofunctional interface design. <i>Biomaterials Science</i> , 2015, 3, 1266-1269.	2.6	15
47	Customizable Optical and Biofunctional Properties of a Medical Lens Based on Chemical Vapor Deposition Encapsulation of Liquids. <i>Chemistry of Materials</i> , 2015, 27, 7028-7033.	3.2	16
48	Osteogenic Surface Modification Based on Functionalized Poly- <i>P</i> -Xylylene Coating. <i>PLoS ONE</i> , 2015, 10, e0137017.	1.1	7
49	Thiol-Responsive Parylenes as a Robust Coating for Biomedical Materials. <i>Advanced Materials Interfaces</i> , 2014, 1, 1400093.	1.9	18
50	Sustained Immobilization of Growth Factor Proteins Based on Functionalized Parylenes. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21906-21910.	4.0	29
51	Compatibility balanced antibacterial modification based on vapor-deposited parylene coatings for biomaterials. <i>Journal of Materials Chemistry B</i> , 2014, 2, 8496-8503.	2.9	25
52	Vapor-Based Multicomponent Coatings for Antifouling and Biofunctional Synergic Modifications. <i>Advanced Functional Materials</i> , 2014, 24, 2281-2287.	7.8	35
53	Antifouling: Vapor-Based Multicomponent Coatings for Antifouling and Biofunctional Synergic Modifications (<i>Adv. Funct. Mater.</i> 16/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2280-2280.	7.8	3
54	Surface Modification: Thiol-Responsive Parylenes as a Robust Coating for Biomedical Materials (<i>Adv. Funct. Mater.</i> 16/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2280-2280.	7.8	3

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55	A facile approach toward protein-resistant biointerfaces based on photodefinable poly-p-xylylene coating. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 727-733.	2.5	12
56	Conjugation of Monocarboxybetaine Molecules on Amino-Poly-p-xylylene Films to Reduce Protein Adsorption and Cell Adhesion. <i>Langmuir</i> , 2014, 30, 14257-14262.	1.6	5
57	Vapor-based tri-functional coatings. <i>Chemical Communications</i> , 2013, 49, 4531.	2.2	32
58	Bihydrogel particles as free-standing mechanical pH microsensors. <i>Applied Physics Letters</i> , 2013, 102, 031901.	1.5	4
59	Vapor-based synthesis of maleimide-functionalized coating for biointerface engineering. <i>Chemical Communications</i> , 2012, 48, 10969.	2.2	37
60	Vapor-Deposited Parylene Photoresist: A Multipotent Approach toward Chemically and Topographically Defined Biointerfaces. <i>Langmuir</i> , 2012, 28, 14313-14322.	1.6	18
61	Reactive Polymer Coatings: A General Route to Thiol-ene and Thiol-ene Click Reactions. <i>Macromolecular Rapid Communications</i> , 2012, 33, 922-927.	2.0	67
62	Macromol. Rapid Commun. 10/2012. <i>Macromolecular Rapid Communications</i> , 2012, 33, 948-948.	2.0	1
63	Designable Biointerfaces Using Vapor-Based Reactive Polymers. <i>Langmuir</i> , 2011, 27, 34-48.	1.6	102
64	Surface patterning strategies for microfluidic applications based on functionalized poly-p-xylylenes. <i>Bioanalysis</i> , 2010, 2, 1717-1728.	0.6	5
65	Substrate-Independent Dip-Pen Nanolithography Based on Reactive Coatings. <i>Journal of the American Chemical Society</i> , 2010, 132, 18023-18025.	6.6	65
66	Partially Fluorinated Poly-p-xylylenes Synthesized by CVD Polymerization. <i>Chemical Vapor Deposition</i> , 2009, 15, 142-149.	1.4	14
67	The use of reactive polymer coatings to facilitate gene delivery from poly (ϵ -caprolactone) scaffolds. <i>Biomaterials</i> , 2009, 30, 5785-5792.	5.7	38
68	The insulation performance of reactive parylene films in implantable electronic devices. <i>Biomaterials</i> , 2009, 30, 6158-6167.	5.7	119
69	Towards Multipotent Coatings: Chemical Vapor Deposition and Biofunctionalization of Carbonyl-Substituted Copolymers. <i>Macromolecular Rapid Communications</i> , 2008, 29, 855-870.	2.0	34
70	Substrate-Selective Chemical Vapor Deposition of Reactive Polymer Coatings. <i>Advanced Materials</i> , 2008, 20, 3474-3480.	11.1	48
71	Solventless Adhesive Bonding Using Reactive Polymer Coatings. <i>Analytical Chemistry</i> , 2008, 80, 4119-4124.	3.2	87
72	Reactive Polymer Coatings for Biological Applications. <i>ACS Symposium Series</i> , 2008, , 283-298.	0.5	4

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73	Fully monolithic CMOS nickel micromechanical resonator oscillator. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	26
74	Colloids with high-definition surface structures. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11173-11178.	3.3	54
75	Surface Modification of Confined Microgeometries via Vapor-Deposited Polymer Coatings. Journal of the American Chemical Society, 2006, 128, 374-380.	6.6	106
76	Reactive Polymer Coatings that "Click". Angewandte Chemie - International Edition, 2006, 45, 3360-3363.	7.2	179
77	Vapor-Based Synthesis of Poly[[4-formyl-p-xylylene)-co-(p-xylylene)] and Its Use for Biomimetic Surface Modifications. Macromolecular Rapid Communications, 2005, 26, 1794-1799.	2.0	65
78	Fabrication of Discontinuous Surface Patterns within Microfluidic Channels Using Photodefinable Vapor-Based Polymer Coatings. Analytical Chemistry, 2005, 77, 6909-6914.	3.2	73