

# Jin-Heong Yim

## List of Publications by Year in descending order

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43  
papers

458  
citations

687363

13  
h-index

752698

20  
g-index

43  
all docs

43  
docs citations

43  
times ranked

390  
citing authors

#	ARTICLE	IF	CITATIONS
1	Micro-patterning of vapor-phase polymerized poly(3,4-ethylenedioxythiophene) (PEDOT) using ink-jet printing/soft lithography. <i>European Polymer Journal</i> , 2010, 46, 389-396.	5.4	43
2	A highly stretchable large strain sensor based on PEDOT-thermoplastic polyurethane hybrid prepared via in situ vapor phase polymerization. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 74, 108-117.	5.8	28
3	In vitro biocompatibility of vapour phase polymerised conductive scaffolds for cell lines. <i>Polymer</i> , 2017, 124, 95-100.	3.8	24
4	Selective Synthesis of 1-butene through Positional Isomerisation of 2-butene over Mesoporous Silica MCM-41. <i>Catalysis Letters</i> , 2007, 119, 179-184.	2.6	23
5	Mechanically robust poly(3,4-ethylenedioxythiophene)-SiO <sub>2</sub> hybrid conductive film prepared by simultaneous vapor phase polymerization. <i>Composites Science and Technology</i> , 2013, 86, 45-51.	7.8	23
6	A conductive thin layer on prepared positive electrodes by vapour reaction printing for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21214-21222.	10.3	23
7	Simultaneous Vapor-Phase Polymerization of PEDOT and a Siloxane into Organic/Inorganic Hybrid Thin Films. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 521-530.	2.2	21
8	Flexible, biocompatible, and electroconductive Polyurethane foam composites coated with graphene oxide for ammonia detection. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130269.	7.8	20
9	Enhanced light harvesting in dye-sensitized solar cells with highly reflective TCO- and Pt-less counter electrodes. <i>Journal of Materials Chemistry</i> , 2011, 21, 15193.	6.7	18
10	High temperature-functioning ceramic-based ionic liquid electrolyte engraved planar HAp/PVP/MnO <sub>2</sub> @MnCO <sub>3</sub> supercapacitors on carbon cloth. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14319-14330.	10.3	18
11	Leakage free electrolyte engraved flexible supercapacitors from Chitosan/GO@MnCO <sub>3</sub> polymer hydrogel chelate film under BMIMBF <sub>4</sub> ionic liquid assistance.. <i>Journal of Energy Storage</i> , 2021, 43, 103300.	8.1	17
12	Fabrication of an electroconductive, flexible, and soft poly(3,4-ethylenedioxythiophene)-thermoplastic polyurethane hybrid scaffold by <i>in situ</i> vapor phase polymerization. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4082-4088.	5.8	16
13	Influence of base inhibitor and surfactant on the electrical and physicochemical properties of PEDOT-SiO <sub>2</sub> hybrid conductive films. <i>Macromolecular Research</i> , 2015, 23, 559-565.	2.4	14
14	Three-dimensional, high-porosity conducting skeletal structure from biodegradable microparticles with vapor-phase polymerized conformal surface layer. <i>Polymer</i> , 2016, 102, 127-135.	3.8	14
15	A multi-functional ammonia gas and strain sensor with 3D-printed thermoplastic polyurethane-polypyrrole composites. <i>Polymer</i> , 2022, 240, 124490.	3.8	13
16	Synergistic enhancement of electrical and mechanical properties of polypyrrole thin films by hybridization of SiO <sub>2</sub> with vapor phase polymerization. <i>Polymer</i> , 2016, 93, 167-173.	3.8	12
17	Highly porous, soft, and flexible vapor-phase polymerized polypyrrole-styrene-ethylene-butylene-styrene hybrid scaffold as ammonia and strain sensor. <i>RSC Advances</i> , 2020, 10, 22533-22541.	3.6	12
18	Catalytic degradation of polyethylene over ferrierite. <i>Research on Chemical Intermediates</i> , 2008, 34, 727-735.	2.7	11

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19	A comparative study between vapor phase polymerized PPy and PEDOT - Thermoplastic polyurethane composites for ammonia sensing. <i>Polymer</i> , 2021, 217, 123463.	3.8	11
20	A study on the physicochemical properties of a graphite/polybenzoxazine composite for bipolar plate of polymer electrolyte membrane fuel cells. <i>Macromolecular Research</i> , 2013, 21, 1226-1232.	2.4	10
21	Chemical compositional distribution of ethylene-1-butene copolymer prepared with heterogeneous ziegler-natta catalyst: TREF and crystaf analysis. <i>Macromolecular Research</i> , 2009, 17, 296-300.	2.4	9
22	Removal of Formaldehyde Over Amine Functionalized SBA-15. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1714-1717.	0.9	9
23	Multifunctional supercapacitor integrated sensor from Oyster and Cicada derived bio-ternary composite: Vanillin/caffeine detections in beverages. <i>Journal of Energy Storage</i> , 2022, 45, 103791.	8.1	7
24	Calixarene Derivatives as Novel Nanopore Generators for Templates of Nanoporous Thin Films. <i>Macromolecular Materials and Engineering</i> , 2006, 291, 369-376.	3.6	6
25	Enhancement of Strain Sensing Performance through Gas Phase Incorporation of Siloxane into Thermoplastic Polyurethane Conducting Polymer Composite. <i>Macromolecular Chemistry and Physics</i> , 2020, 221, 2000155.	2.2	6
26	Styrene-based ternary composite elastomers functionalized with graphene oxide-polypyrrole under iron(III)-alkyl benzenesulfonate oxidants for supercapacitor integrated strain sensor system. <i>Journal of Energy Storage</i> , 2022, 51, 104543.	8.1	6
27	Comparison of catalytic behaviors of various silica-supported metallocene catalysts in syndiospecific polymerization of styrene. <i>Journal of Applied Polymer Science</i> , 2006, 102, 2293-2298.	2.6	5
28	Porous PEDOT-SiO <sub>2</sub> hybrid conductive micro particles prepared by simultaneous co-vaporized vapor phase polymerization. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 63, 95-102.	5.8	5
29	Mechanically and Electrically Enhanced Polyurethane-poly(3,4-ethylenedioxythiophene) Conductive Foams with Aligned Pore Structures Promote MC3T3-E1 Cell Growth and Proliferation. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1482-1490.	4.4	5
30	Effects of infill patterns on resistance-dependent strain and ammonia gas sensing behaviors of 3D-printed thermoplastic polyurethane modified with polypyrrole. <i>Journal of Materials Chemistry C</i> , 2022, 10, 6687-6695.	5.5	5
31	Cyclodextrin-modified MCM-41 for selective double bond migration. <i>Research on Chemical Intermediates</i> , 2010, 36, 661-667.	2.7	4
32	Preparation of PEDOT-ordered mesoporous carbon hybrid material using vapor phase polymerization. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1941-1947.	2.7	3
33	Elucidation of the Controversial Layer Growth Mechanism of Vapor Phase Polymerization in the Preparation of Conductive Poly(3,4-ethylenedioxythiophene)-SiO <sub>2</sub> Hybrid Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000046.	3.7	3
34	Conformable on-skin supercapacitor-integrated, strain sensor based on multioxidant-functionalized thermoplastic polyurethane/reduced graphene oxide/polypyrrole composite films. <i>New Journal of Chemistry</i> , 2022, 46, 10535-10539.	2.8	3
35	Effects of hybrid hardener on properties of a composite bipolar plate for polymer electrolyte membrane fuel cells. <i>Macromolecular Research</i> , 2012, 20, 1124-1130.	2.4	2
36	Effect of the Chemical Structure of the Oxidants on the Opto-electronic Properties of Polypyrrole Thin Film. <i>Porrime</i> , 2021, 45, 443-449.	0.2	2

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37	Novel Preparation Route of Conductive PPy-PAN Hybrid Thin Films Using Simultaneous Co-vaporized Vapor Phase Polymerization. <i>Porrime</i> , 2018, 42, 701-707.	0.2	2
38	Electromechanically Durable Graphene Oxide-Embedded Elastomer via Simultaneous Copolymerization of Siloxane/Polyol Based on the Dual Secondary Bond Architecture. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2614-2625.	4.4	2
39	Determining Pore Structure and Growth Mechanisms in Templated Nanoporous Low-k Films. <i>Materials Research Society Symposia Proceedings</i> , 2005, 863, B3.4-1.	0.1	1
40	A kinetic study of novel bimetallic titanocene catalyst for syndiospecific styrene polymerization. <i>Journal of Applied Polymer Science</i> , 2007, 105, 297-301.	2.6	1
41	Fabrication of Three-dimensional Flexible Conductive Scaffold Using Spherical Sugar Particles as Porogen. <i>Porrime</i> , 2019, 43, 735-740.	0.2	1
42	The Preparation and Low-k Application of Asymmetric Functionalized Cyclodextrin Templated Nanoporous Silsesquioxane Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5408-5413.	0.9	0
43	Preparation of graphene aerogel-poly(3,4-ethylenedioxythiophene) conductive composite by using simultaneous co-vaporized vapor phase polymerization. <i>Korean Journal of Chemical Engineering</i> , 2018, 35, 1756-1763.	2.7	0