

Jong Chan Won

List of Publications by Year in descending order

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55
papers

1,425
citations

304602

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37
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all docs

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docs citations

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times ranked

2090
citing authors

#	ARTICLE	IF	CITATIONS
1	Barium Titanate Nanoparticles with Diblock Copolymer Shielding Layers for High-Energy Density Nanocomposites. <i>Chemistry of Materials</i> , 2010, 22, 450-456.	3.2	149
2	Robust Microfluidic Encapsulation of Cholesteric Liquid Crystals Toward Photonic Ink Capsules. <i>Advanced Materials</i> , 2015, 27, 627-633.	11.1	111
3	Solvent-Free Directed Patterning of a Highly Ordered Liquid Crystalline Organic Semiconductor via Template-Assisted Self-Assembly for Organic Transistors. <i>Advanced Materials</i> , 2013, 25, 6219-6225.	11.1	73
4	Reconfigurable Photonic Capsules Containing Cholesteric Liquid Crystals with Planar Alignment. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15266-15270.	7.2	73
5	Effect of graphite and carbon fiber contents on the morphology and properties of thermally conductive composites based on polyamide 6. <i>Polymer International</i> , 2014, 63, 151-157.	1.6	72
6	Ultrathin thermally conductive yet electrically insulating exfoliated graphene fluoride film for high performance heat dissipation. <i>Carbon</i> , 2020, 157, 741-749.	5.4	69
7	Thermal conductivity improvement of surface-enhanced polyetherimide (PEI) composites using polyimide-coated h-BN particles. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 20041.	1.3	58
8	Thermal conductivity of graphite filled liquid crystal polymer composites and theoretical predictions. <i>Composites Science and Technology</i> , 2013, 88, 113-119.	3.8	55
9	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8527-8540.	5.2	53
10	Laser-induced photothermal generation of flexible and salt-resistant monolithic bilayer membranes for efficient solar desalination. <i>Carbon</i> , 2020, 164, 349-356.	5.4	51
11	Enhancement of the thermal stability, mechanical properties and morphologies of recycled PVC/clay nanocomposites. <i>Polymer Bulletin</i> , 2004, 52, 373-380.	1.7	41
12	High-aspect ratio zeolitic imidazolate framework (ZIF) nanoplates for hydrocarbon separation membranes. <i>Science Advances</i> , 2022, 8, eabl6841.	4.7	40
13	Robust photonic microparticles comprising cholesteric liquid crystals for anti-forgery materials. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7567-7573.	2.7	37
14	Low-Temperature Solution-Processed Soluble Polyimide Gate Dielectrics: From Molecular-Level Design to Electrically Stable and Flexible Organic Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 45949-45958.	4.0	34
15	Lifetime enhancement of organic thin-film transistors protected with organic layer. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	31
16	Porous boron nitride/polyimide composite films with high thermal diffusivity and low dielectric properties via high internal phase Pickering emulsion method. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 82, 173-179.	2.9	31
17	Photo-patternable polyimide gate insulator with fluorine groups for improving performance of 2,7-didecyl[1]benzothieno[3,2-b][1]benzothiophene (C10-BTBT) thin-film transistors. <i>Organic Electronics</i> , 2013, 14, 1777-1786.	1.4	30
18	Facile fabrication of superhydrophobic coatings with polyimide particles using a reactive electro spraying process. <i>Journal of Materials Chemistry</i> , 2012, 22, 16005.	6.7	29

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19	Surface modification of polyimide gate insulators for solution-processed 2,7-didecyl[1]benzothieno[3,2-b][1]benzothiophene (C ₁₀ -BTBT) thin-film transistors. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 950-956.	1.3	26
20	Thermally conductive polyamide 6/carbon filler composites based on a hybrid filler system. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 065001.	2.8	25
21	Solution-Processable, Thin, and High- ϵ Dielectric Polyurea Gate Insulator with Strong Hydrogen Bonding for Low-Voltage Organic Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 32462-32470.	4.0	25
22	Nano-scale insulation effect of polypyrrole/polyimide core-shell nanoparticles for dielectric composites. <i>Composites Science and Technology</i> , 2016, 129, 153-159.	3.8	23
23	Highly anisotropic thermal conductivity of discotic nematic liquid crystalline films with homeotropic alignment. <i>Chemical Communications</i> , 2017, 53, 8227-8230.	2.2	23
24	The effect of thermal annealing on the layered structure of smectic liquid crystalline organic semiconductor on polyimide gate insulator and its OFET performance. <i>Synthetic Metals</i> , 2016, 220, 311-317.	2.1	19
25	Preparation and characteristics of cross-linkable polysulfone having methylene methacrylate side-chain. <i>Journal of Applied Polymer Science</i> , 2008, 109, 1-8.	1.3	18
26	Highly conductive polyimide nanocomposite prepared using a graphene oxide liquid crystal scaffold. <i>Carbon</i> , 2020, 169, 155-162.	5.4	18
27	Room-temperature, printed, low-voltage, flexible organic field-effect transistors using soluble polyimide gate dielectrics. <i>APL Materials</i> , 2020, 8, 011112.	2.2	18
28	Extended lifetime of pentacene thin-film transistor with polyvinyl alcohol (PVA)/layered silicate nanocomposite passivation layer. <i>Microelectronic Engineering</i> , 2009, 86, 41-46.	1.1	15
29	Eco-Friendly Water-Processable Polyimide Binders with High Adhesion to Silicon Anodes for Lithium-Ion Batteries. <i>Nanomaterials</i> , 2021, 11, 3164.	1.9	13
30	Metal-oxide assisted surface treatment of polyimide gate insulators for high-performance organic thin-film transistors. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15521-15529.	1.3	11
31	Investigation of phase separated polyimide blend films containing boron nitride using FTIR imaging. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 195, 1-6.	2.0	11
32	Tailored Polymer Gate Dielectric Engineering to Optimize Flexible Organic Field-Effect Transistors and Complementary Integrated Circuits. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30921-30929.	4.0	11
33	Synthesis and characterization of new polyimides containing ethynylene linkages. <i>European Polymer Journal</i> , 2007, 43, 1541-1548.	2.6	10
34	Viscoelastic properties of a 3D-Printable high-dielectric paste with surface-modified BaTiO ₃ . <i>Composites Science and Technology</i> , 2018, 159, 225-231.	3.8	9
35	The true liquid crystal phases of 2D polymeric carbon nitride and macroscopic assembled fibers. <i>Materials Horizons</i> , 2019, 6, 1726-1732.	6.4	9
36	Enhanced dielectric properties of polyimide/BaTiO ₃ nanocomposite by embedding the polypyrrole@polyimide core-shell nanoparticles. <i>Macromolecular Research</i> , 2017, 25, 290-296.	1.0	8

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37	Hollow hybrid spheres with silica inner shell for non-deformable, core exchangeable properties. <i>Chemical Communications</i> , 2008, , 5405.	2.2	7
38	Polyimide-Coated Glass Microfiber as Polysulfide Perm-Selective Separator for High-Performance Lithium-Sulphur Batteries. <i>Nanomaterials</i> , 2019, 9, 1612.	1.9	7
39	Enhanced hydrolytic and electrical stability of eco-friendly processed polyimide gate dielectrics for organic transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14370-14377.	2.7	7
40	Resistive and Etching-Free Patterning Mediated by Predefined Photosensitive Polyimide for Two-Dimensional Semiconductor-Based Photodetectors. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001817.	1.9	7
41	Changing the dielectric properties of BaTiO ₃ filled poly(phenylene oxide) composites by control of their structure. <i>Applied Physics Letters</i> , 2009, 95, 052907.	1.5	6
42	The Preparation of Size-Controllable Hollow Polyimide Microspheres by Surface Imidization of Electrospayed Droplets. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 424-429.	1.7	6
43	Polymeric mold soft-patterned metal oxide field-effect transistors: critical factors determining device performance. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8486-8491.	2.7	6
44	Highly Stable Porous Polyimide Sponge as a Separator for Lithium-Metal Secondary Batteries. <i>Nanomaterials</i> , 2020, 10, 1976.	1.9	6
45	Studies of Thermal Imidization Kinetics of Polyisoimide Based upon 4,4'-[1,4-Phenylenebis-(1-methyl) Tj ETQq1 1 0.784314 rgBT /O 0.8 5 2005, 17, 19-34.	0.8	5
46	Sonocrystallization of polycarbonate melts. <i>Polymers for Advanced Technologies</i> , 2007, 18, 1015-1019.	1.6	5
47	Surface-induced orientation of pentacene molecules and transport anisotropy on nanogroove SiO ₂ dielectric layer by simple scratched method: The study of surface roughness and molecular alignment on the mobility of organic thin film transistors. <i>Organic Electronics</i> , 2017, 42, 316-321.	1.4	5
48	Porous polyimide films prepared by thermolysis of porogens with hyperbranched structure. <i>Journal of Applied Polymer Science</i> , 2004, 93, 1711-1718.	1.3	4
49	Site-Selective Multi-Stacked Assembly of Silver Nanoparticles on Amine-Functionalized Printed Patterns: Comparative Studies on the Role of Electrostatic Interaction and Meniscus. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500129.	1.9	3
50	A dual cross-linked aromatic polythiourea gate dielectric with multifunctional capabilities for organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 77-81.	2.7	2
51	Synthesis and Characterization of Polyimide with Improved Adhesion Property for Copper Foil. <i>Porrime</i> , 2017, 41, 882-888.	0.0	2
52	Preparation and Characterization of Transparent Polyimide/Silica Composite Films by a Sol-Gel Reaction. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 584, 9-17.	0.4	1
53	Preparation and properties of transparent poly(methyl methacrylate) nanocomposite films. <i>Composite Interfaces</i> , 2006, 13, 205-214.	1.3	0
54	The Novel Diamine, Dianhydride, and Polyimide Based on Anthracene Core. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1692, 13.	0.1	0

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55	Preparation and Characterization of BaTiO ₃ /Polyimide Composite Nanofibers and Nanocomposites via Electrospinning with Enhanced Dielectric Properties. <i>Polymer</i> , 2017, 41, 978-983.	0.0	0