

Sangmin Chae

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Resolving Atomic-Scale Interactions in Nonfullerene Acceptor Organic Solar Cells with Solid-State NMR Spectroscopy, Crystallographic Modelling, and Molecular Dynamics Simulations. <i>Advanced Materials</i> , 2022, 34, e2105943.	11.1	36
2	Switchable ferroelectric photovoltaic effects in epitaxial RFeO_3 thin films. <i>Nanoscale</i> , 2018, 10, 13261-13269.	2.8	35
3	Strong Nonlinear Optical Response in the Visible Spectral Range with Epsilon-Near-Zero Organic Thin Films. <i>Advanced Optical Materials</i> , 2018, 6, 1701400.	3.6	34
4	Insights into Bulk-Heterojunction Organic Solar Cells Processed from Green Solvent. <i>Solar Rrl</i> , 2021, 5, 2100213.	3.1	30
5	Control of Crystallinity in PbPc:C_{60} Blend Film and Application for Inverted Near-Infrared Organic Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25614-25620.	4.0	25
6	The synergistic effect of cooperating solvent vapor annealing for high-efficiency planar inverted perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27267-27277.	5.2	24
7	Roll-transferred graphene encapsulant for robust perovskite solar cells. <i>Nano Energy</i> , 2020, 77, 105182.	8.2	24
8	Conjugated polymers containing 6-(2-thienyl)-4H-thieno[3,2-b]indole (TTI) and isoindigo for organic photovoltaics. <i>Polymer</i> , 2016, 95, 36-44.	1.8	18
9	Favorable Face-on Orientation of a Conjugated Polymer on Roll-Transferred Graphene Interface. <i>Advanced Materials Interfaces</i> , 2017, 4, 1701099.	1.9	18
10	Syntheses and photovoltaic properties of 6-(2-thienyl)-4H-thieno[3,2-b]indole based conjugated polymers containing fluorinated benzothiadiazole. <i>Polymer</i> , 2017, 109, 115-125.	1.8	17
11	Conjugated polymers containing pyrimidine with electron withdrawing substituents for organic photovoltaics with high open-circuit voltage. <i>Polymer</i> , 2016, 83, 50-58.	1.8	16
12	Dual-Mode Organic Electrochemical Transistors Based on Self-Doped Conjugated Polyelectrolytes for Reconfigurable Electronics. <i>Advanced Materials</i> , 2022, 34, e2200274.	11.1	15
13	Manipulating the crystal structure of a conjugated polymer for efficient sequentially processed organic solar cells. <i>Nanoscale</i> , 2018, 10, 21052-21061.	2.8	13
14	Efficiency of Thermally Activated Delayed Fluorescence Sensitized Triplet Upconversion Doubled in Three-Component System. <i>Advanced Materials</i> , 2022, 34, e2103976.	11.1	13
15	Molecular engineering of a conjugated polymer as a hole transporting layer for versatile p-i-n perovskite solar cells. <i>Materials Today Energy</i> , 2019, 14, 100341.	2.5	12
16	Effect of a π -linker of push-pull π -A donor molecules on the performance of organic photodetectors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11145-11152.	2.7	12
17	Laser-induced orientation transformation of a conjugated polymer thin film with enhanced vertical charge transport. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9374-9382.	2.7	11
18	Selective Chain Alignment of Conducting Polymer Blend Films by an Ultrafast Laser. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 537-542.	1.1	10

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19	Using Femtosecond Laser Irradiation to Enhance the Vertical Electrical Properties and Tailor the Morphology of a Conducting Polymer Blend Film. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24422-24427.	4.0	9
20	Characterization of push-pull type of conjugated polymers containing 8H-thieno[2,3-b]indole for organic photovoltaics. <i>Synthetic Metals</i> , 2018, 245, 267-275.	2.1	9
21	Syntheses and optical, electrochemical, and photovoltaic properties of polymers with 6-(2-thienyl)thieno[2,3-b]indole with a variety of electron-deficient units. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47624.	1.3	9
22	Hydrophobic stretchable polydimethylsiloxane films with wrinkle patterns prepared via a metal-assisted chemical etching process using a Si master mold. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50398.	1.3	9
23	Insights into the Structural and Morphological Properties of Layer-by-Layer Processed Organic Photovoltaics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60288-60298.	4.0	9
24	Synergistic Effect of Codoped Nickel Oxide Hole-Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100243.	3.1	8
25	Efficient Fabrication of Organic Electrochemical Transistors via Wet Chemical Processing. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12469-12478.	4.0	8
26	Syntheses of pyrimidine-based polymers containing electron-withdrawing substituent with high open circuit voltage and applications for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2016, 54, 771-784.	2.5	7
27	Syntheses of PCDTBT containing tetrafluorobenzene as electron-withdrawing group with deep HOMO energy level and Applications for photovoltaics. <i>Polymer</i> , 2016, 102, 84-91.	1.8	4
28	Syntheses and Properties of Semiconducting Polymers Based on Pyrimidine Series Substituted with Thiazolo-Pyridine. <i>Macromolecular Research</i> , 2018, 26, 438-445.	1.0	4
29	Nanowall formation by maskless wet-etching on a femtosecond laser irradiated silicon surface. <i>Applied Surface Science</i> , 2018, 437, 190-194.	3.1	4
30	Femtosecond laser irradiation of molecular excitonic films for nanophotonic response control and large-area patterning. <i>Optics Express</i> , 2019, 27, 18044.	1.7	4
31	Syntheses and Properties of Conjugated Polymers Containing Thieno[2,3-b]indole with Different Electron-Deficient Units. <i>Bulletin of the Korean Chemical Society</i> , 2019, 40, 1208-1214.	1.0	1
32	Ultrafast laser materials processing for manufacturing innovation. , 2015, , .		0
33	Graphene: Favorable Face-on Orientation of a Conjugated Polymer on Roll-to-Roll-Transferred Graphene Interface (<i>Adv. Mater. Interfaces</i> 23/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, 1770124.	1.9	0
34	Synergistic Effect of Codoped Nickel Oxide Hole-Transporting Layers for Highly Efficient Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2170092.	3.1	0