

Wooseop Lee

List of Publications by Year in descending order

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papers

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citations

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all docs

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26
times ranked

1032
citing authors

#	ARTICLE	IF	CITATIONS
1	Shallow and Deep Trap State Passivation for Low-Temperature Processed Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 1396-1403.	17.4	75
2	Universal three-dimensional crosslinker for all-photopatterned electronics. Nature Communications, 2020, 11, 1520.	12.8	65
3	Improved Processability and Efficiency of Colloidal Quantum Dot Solar Cells Based on Organic Hole Transport Layers. Advanced Energy Materials, 2018, 8, 1800572.	19.5	45
4	Performance Optimization of Parallel-Like Ternary Organic Solar Cells through Simultaneous Improvement in Charge Generation and Transport. Advanced Functional Materials, 2019, 29, 1808731.	14.9	37
5	High-Efficiency Solution-Processed Two-Terminal Hybrid Tandem Solar Cells Using Spectrally Matched Inorganic and Organic Photoactive Materials. Advanced Energy Materials, 2020, 10, 2001188.	19.5	37
6	Molecular Engineering in Hole Transport π -Conjugated Polymers to Enable High Efficiency Colloidal Quantum Dot Solar Cells. Advanced Energy Materials, 2020, 10, 1902933.	19.5	36
7	Near-Infrared Harvesting Fullerene-Free All-Small-Molecule Organic Solar Cells Based on Porphyrin Donors. ACS Sustainable Chemistry and Engineering, 2018, 6, 5306-5313.	6.7	34
8	PbS-Based Quantum Dot Solar Cells with Engineered π -Conjugated Polymers Achieve 13% Efficiency. ACS Energy Letters, 2020, 5, 3452-3460.	17.4	32
9	Effect of Grafting Density of Random Copolymer Brushes on Perpendicular Alignment in PS- <i>b</i> -PMMA Thin Films. Macromolecules, 2017, 50, 5858-5866.	4.8	26
10	Gyroid Structures in Solvent Annealed PS- <i>b</i> -PMMA Films: Controlled Orientation by Substrate Interactions. Macromolecules, 2017, 50, 5033-5041.	4.8	26
11	Thermally Stable Bulk Heterojunction Prepared by Sequential Deposition of Nanostructured Polymer and Fullerene. Polymers, 2017, 9, 456.	4.5	22
12	Orientation of an Amphiphilic Copolymer to a Lamellar Structure on a Hydrophobic Surface and Implications for CO ₂ Capture Membranes. Angewandte Chemie - International Edition, 2019, 58, 1143-1147.	13.8	19
13	Nonmonotonic Glass Transition Temperature of Polymer Films Supported on Polymer Brushes. Macromolecules, 2018, 51, 4451-4461.	4.8	18
14	Irreversible Physisorption of PS- <i>b</i> -PMMA Copolymers on Substrates for Balanced Interfacial Interactions as a Versatile Surface Modification. ACS Macro Letters, 2019, 8, 519-524.	4.8	14
15	Glass Transition and Thermal Expansion Behavior of Polystyrene Films Supported on Polystyrene-Grafted Substrates. Macromolecules, 2016, 49, 5291-5296.	4.8	12
16	Preferential Wetting Effects on Order-to-Disorder Transition in Polystyrene- <i>b</i> -poly(2-vinylpyridine) Films: A Reconsideration on Thickness Dependence. Macromolecules, 2018, 51, 8550-8560.	4.8	12
17	Order-to-Disorder Transition of Lamella-Forming PS- <i>b</i> -P2VP Films Confined between the Preferential Surface and Neutral Substrate. Macromolecules, 2019, 52, 8672-8681.	4.8	9
18	Instability of Polystyrene Film and Thermal Behaviors Mediated by Unfavorable Silicon Oxide Interlayer. Macromolecules, 2019, 52, 7524-7530.	4.8	9

#	ARTICLE	IF	CITATIONS
19	Orientation of an Amphiphilic Copolymer to a Lamellar Structure on a Hydrophobic Surface and Implications for CO ₂ Capture Membranes. <i>Angewandte Chemie</i> , 2019, 131, 1155-1159.	2.0	9
20	Autophobic dewetting of polystyrenes on the substrates grafted with chemically identical polymers. <i>Polymer Journal</i> , 2016, 48, 503-507.	2.7	8
21	Lamellar Orientation and Transition Behavior of PS- <i>b</i> -P2VP Copolymers Supported on Physically Adsorbed Layers. <i>Macromolecules</i> , 2020, 53, 6213-6219.	4.8	4
22	In-depth probing of thermally-driven phase separation behavior of lamella-forming PS- <i>b</i> -PMMA films by infrared nanoscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 274, 121095.	3.9	4
23	Microdomain homogeneity evaluation of perpendicular lamellar structures in block copolymer films: X-ray scattering and IR nanospectroscopy analyses. <i>Polymer Testing</i> , 2021, 104, 107409.	4.8	3
24	Ordering and Orientation of Giant Nanostructures from High-Molecular-Weight Block Copolymer via Solvent Vapor Annealing Process. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018, 31, 479-482.	0.3	2
25	Quantum Dot Solar Cells: Molecular Engineering in Hole Transport Ā€ĀConjugated Polymers to Enable High Efficiency Colloidal Quantum Dot Solar Cells (<i>Adv. Energy Mater.</i> 8/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070035.	19.5	2
26	Ternary Organic Solar Cells: Performance Optimization of ParallelĀ€Like Ternary Organic Solar Cells through Simultaneous Improvement in Charge Generation and Transport (<i>Adv. Funct. Mater.</i> 14/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970093.	14.9	0