

Won-Jae Joo

List of Publications by Year in descending order

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30
papers

2,238
citations

687363

13
h-index

477307

29
g-index

30
all docs

30
docs citations

30
times ranked

4375
citing authors

#	ARTICLE	IF	CITATIONS
1	Wafer-Scale Growth of Single-Crystal Monolayer Graphene on Reusable Hydrogen-Terminated Germanium. <i>Science</i> , 2014, 344, 286-289.	12.6	831
2	High-performance crosslinked colloidal quantum-dot light-emitting diodes. <i>Nature Photonics</i> , 2009, 3, 341-345.	31.4	505
3	Metasurface-driven OLED displays beyond 10,000 pixels per inch. <i>Science</i> , 2020, 370, 459-463.	12.6	212
4	Synthesis and Nonvolatile Memory Behavior of Redox-Active Conjugated Polymer-Containing Ferrocene. <i>Journal of the American Chemical Society</i> , 2007, 129, 9842-9843.	13.7	154
5	Metal Filament Growth in Electrically Conductive Polymers for Nonvolatile Memory Application. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23812-23816.	2.6	103
6	Study on Threshold Behavior of Operation Voltage in Metal Filament-Based Polymer Memory. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7756-7760.	2.6	72
7	Optical Gain in MoS ₂ Coupling with Nanostructured Substrate: Fabry-Pérot Interference and Plasmonic Excitation. <i>ACS Nano</i> , 2016, 10, 8192-8198.	14.6	69
8	Polymeric photorefractive composite for holographic applications. <i>Polymer</i> , 2001, 42, 9863-9866.	3.8	50
9	Realization of continuous Zachariasen carbon monolayer. <i>Science Advances</i> , 2017, 3, e1601821.	10.3	46
10	Determination of the space-charge field in polymeric photorefractive material. <i>Journal of Applied Physics</i> , 2002, 91, 6471.	2.5	23
11	Gold nanoparticles passivated with β -conjugated dendrons and their electrical bistability. <i>Synthetic Metals</i> , 2008, 158, 359-363.	3.9	19
12	Synthesis and characterization of a new photoconducting poly(siloxane) having pendant diphenylhydrazone for photorefractive applications. <i>Macromolecular Research</i> , 2003, 11, 431-436.	2.4	18
13	Temperature Dependence on the Grating Formation in a Low-Tg Polymeric Photorefractive Composite. <i>Journal of Physical Chemistry B</i> , 2009, 113, 1592-1597.	2.6	16
14	Photoinduced Birefringence in Poly(malonic ester) Containing p-Cyanoazobenzene with Photoexcitation of cis Conformer. <i>Journal of Physical Chemistry B</i> , 2001, 105, 8322-8326.	2.6	13
15	Applications of polymeric photorefractive material to reversible data storage and information processing. <i>Journal of Applied Polymer Science</i> , 2003, 89, 368-372.	2.6	13
16	Unraveling the Structural and Electronic Properties of Graphene/Ge(110). <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 7059-7063.	4.6	13
17	Ferrocene-cored-conjugated dendrimer with electrical bistability. <i>Synthetic Metals</i> , 2007, 157, 640-643.	3.9	12
18	Synthesis and characterization of organic photorefractive glass. <i>Synthetic Metals</i> , 2002, 129, 281-283.	3.9	9

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19	Electronically controlled nonvolatile memory device using PAMAM dendrimer. <i>Organic Electronics</i> , 2006, 7, 600-606.	2.6	9
20	Carbon out-diffusion mechanism for direct graphene growth on a silicon surface. <i>Acta Materialia</i> , 2015, 96, 18-23.	7.9	8
21	Novel mechanism of fast relaxation of photo-induced anisotropy in a poly(malonic esters) containing p-cyanoazobenzene. <i>Journal of Chemical Physics</i> , 2000, 113, 8848-8851.	3.0	7
22	Influence of the Backbone on Photoinduced Birefringence in a Poly(malonic ester) Containing p-Cyanoazobenzene. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5378-5381.	2.6	7
23	Application to Optically Controlled Spatial Light Modulator Using Organic Photorefractive Composite. <i>Polymer Journal</i> , 2004, 36, 674-678.	2.7	6
24	Embossed structure embedded organic memory device. <i>Thin Solid Films</i> , 2008, 516, 3133-3137.	1.8	6
25	Selective exfoliation of single-layer graphene from non-uniform graphene grown on Cu. <i>Nanotechnology</i> , 2015, 26, 455304.	2.6	6
26	Synthetic Topological Nodal Phase in Bilayer Resonant Gratings. <i>Physical Review Letters</i> , 2022, 128, 053002.	7.8	6
27	TEMPERATURE DEPENDENCE ON THE GRATING FORMATION IN PHOTOREFRACTIVE POLYMERIC COMPOSITE. <i>Molecular Crystals and Liquid Crystals</i> , 2003, 406, 69-75.	0.9	2
28	Dependence of the Bragg condition on an external electric field for a polymeric photorefractive material. <i>Applied Optics</i> , 2003, 42, 3271.	2.1	2
29	Simple method for determining the gain coefficient of a photorefractive polymer film. <i>Optics Letters</i> , 2003, 28, 1254.	3.3	1
30	Conjugated dendrimers with electrical bistability for organic memory application. <i>Macromolecular Research</i> , 2009, 17, 203-206.	2.4	0