

Gitti Frey

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

1,561
citations

361413
20
h-index

315739
38
g-index

56
all docs

56
docs citations

56
times ranked

3040
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical-absorption spectra of inorganic fullerene-like MS ₂ (M=Mo,W). Physical Review B, 1998, 57, 6666-6671.	3.2	270
2	Ultrathin Regioregular Poly(3-hexyl thiophene) Field-Effect Transistors. Langmuir, 2002, 18, 10176-10182.	3.5	156
3	Solution-Processed Anodes from Layer-Structure Materials for High-Efficiency Polymer Light-Emitting Diodes. Journal of the American Chemical Society, 2003, 125, 5998-6007.	13.7	105
4	Inorganic solution-processed hole-injecting and electron-blocking layers in polymer light-emitting diodes. Journal of Applied Physics, 2002, 92, 7556-7563.	2.5	94
5	Patterned electrode vertical field effect transistor fabricated using block copolymer nanotemplates. Applied Physics Letters, 2009, 95, .	3.3	78
6	Facile infiltration of semiconducting polymer into mesoporous electrodes for hybrid solar cells. Energy and Environmental Science, 2011, 4, 3051.	30.8	68
7	Understanding and Controlling Organic-Inorganic Interfaces in Mesostructured Hybrid Photovoltaic Materials. Journal of the American Chemical Society, 2011, 133, 10119-10133.	13.7	54
8	Atomic layer deposition of zinc oxide onto and into P3HT for hybrid photovoltaics. Journal of Materials Chemistry C, 2014, 2, 8903-8910.	5.5	41
9	Inhibition of Energy Transfer between Conjugated Polymer Chains in Host/Guest Nanocomposites Generates White Photo- and Electroluminescence. Journal of the American Chemical Society, 2006, 128, 15968-15969.	13.7	38
10	Self-assembled conjugated polymer-surfactant-silica mesostructures and their integration into light-emitting diodes. Journal of Materials Chemistry, 2008, 18, 423-436.	6.7	33
11	Nanocomposite of nickel oxide nanoparticles and polyethylene oxide as printable hole transport layer for organic solar cells. Sustainable Energy and Fuels, 2019, 3, 1418-1426.	4.9	31
12	Self-Organized Semiconducting Polymer-Incorporated Mesostructured Titania for Photovoltaic Applications. Advanced Materials, 2008, 20, 2541-2546.	21.0	29
13	Directing Hybrid Structures by Combining Self-Assembly of Functional Block Copolymers and Atomic Layer Deposition: A Demonstration on Hybrid Photovoltaics. Langmuir, 2015, 31, 12762-12769.	3.5	28
14	Atomic layer deposition of ZnO electron transporting layers directly onto the active layer of organic solar cells. Organic Electronics, 2019, 64, 37-46.	2.6	28
15	Mechanism of Metal Oxide Deposition from Atomic Layer Deposition inside Nonreactive Polymer Matrices: Effects of Polymer Crystallinity and Temperature. Chemistry of Materials, 2016, 28, 2668-2676.	6.7	27
16	Hybrid mesostructured electrodes for fast-switching proton-based solid state electrochromic devices. Journal of Materials Chemistry C, 2013, 1, 151-159.	5.5	26
17	Spontaneous interlayer formation in OPVs by additive migration due to additive-metal interactions. Journal of Materials Chemistry A, 2014, 2, 16746-16754.	10.3	25
18	Tuning Intra and Intermolecular Interactions for Balanced Hole and Electron Transport in Semiconducting Polymers. Chemistry of Materials, 2020, 32, 7338-7346.	6.7	24

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19	Spontaneous generation of interlayers in OPVs with silver cathodes: enhancing Voc and lifetime. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1821-1828.	5.5	22
20	Mechanisms for Spontaneous Generation of Interlayers in Organic Solar Cells. <i>Chemistry of Materials</i> , 2016, 28, 8851-8870.	6.7	21
21	Bridging the thermodynamics and kinetics of temperature-induced morphology evolution in polymer/fullerene organic solar cell bulk heterojunction. <i>Materials Horizons</i> , 2021, 8, 1272-1285.	12.2	21
22	Dimensionality-dependent energy transfer in polymer-intercalated SnS ₂ nanocomposites. <i>Physical Review B</i> , 2007, 75, .	3.2	19
23	On the Origin of Charge Generation in Hybrid TiO _x /Conjugated Polymer Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2024-2032.	3.1	18
24	Decoupling 2D Inter- and Intrachain Energy Transfer in Conjugated Polymers. <i>ChemPhysChem</i> , 2009, 10, 576-581.	2.1	17
25	Harnessing ALD to directly map the morphology of organic photovoltaic bulk heterojunctions. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 280-283.	6.2	17
26	Thermal metal deposition induces segregation in polymer thin films: a demonstration on OPVs. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6522.	5.5	16
27	Morphology visualization of P3HT:Fullerene blends by using subsurface atomic layer deposition. <i>Organic Electronics</i> , 2017, 49, 234-241.	2.6	16
28	Tuning Contact Resistance in Top-Contact <i>p</i> -Type and <i>n</i> -Type Organic Field Effect Transistors by Self-Generated Interlayers. <i>Advanced Functional Materials</i> , 2020, 30, 1805617.	14.9	16
29	Free standing silica thin films with highly ordered perpendicular nanopores. <i>RSC Advances</i> , 2014, 4, 7627-7633.	3.6	15
30	Toward Fast Screening of Organic Solar Cell Blends. <i>Advanced Science</i> , 2020, 7, 2000960.	11.2	15
31	Fully Solution-Processed Photonic Structures from Inorganic/Organic Molecular Hybrid Materials and Commodity Polymers. <i>Advanced Functional Materials</i> , 2019, 29, 1808152.	14.9	14
32	Augmenting n-Type Performance of Ambipolar Top-Contact Organic Thin-Film Transistors by Self-Generated Interlayers. <i>Chemistry of Materials</i> , 2019, 31, 7046-7053.	6.7	13
33	Effect of the Solvent on the Conformation of Isolated MEH-PPV Chains Intercalated Into SnS ₂ . <i>ChemPhysChem</i> , 2008, 9, 1430-1436.	2.1	12
34	Encapsulation of Conjugated Polymers in Block Copolymer-Templated Mesoporous Oxides: A Cosolvent Assisted Approach. <i>Chemistry of Materials</i> , 2009, 21, 4387-4396.	6.7	12
35	Plasmonic nanoparticle incorporation into inverted hybrid organic-inorganic solar cells. <i>Organic Electronics</i> , 2015, 23, 144-150.	2.6	12
36	Enhancing P3HT/PCBM blend stability by thermal crosslinking using poly(3-hexylthiophene)-S,S-dioxide. <i>Journal of Materials Chemistry C</i> , 2020, 8, 7698-7707.	5.5	12

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37	Interlayers Self-Generated by Additive-Metal Interactions in Organic Electronic Devices. <i>Advanced Materials</i> , 2018, 30, e1706803.	21.0	11
38	Controlling morphology and charge transfer in ZnO/polythiophene photovoltaic films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 4167-4176.	5.5	10
39	Dynamics of Additive Migration to Form Cathodic Interlayers in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29889-29900.	8.0	10
40	Correlating the effective work function at buried organic/metal interfaces with organic solar cell characteristics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8060-8068.	5.5	10
41	Towards understanding paleosols in Southern Levantine eolianites: Integration of micromorphology, environmental magnetism and mineralogy. <i>Journal of Mountain Science</i> , 2009, 6, 113-124.	2.0	9
42	Mesostructured Silica Containing Conjugated Polymers Formed within the Channels of Anodic Alumina Membranes from Tetrahydrofuran-Based Solution. <i>Langmuir</i> , 2012, 28, 1506-1514.	3.5	9
43	Chemical Composition of Additives That Spontaneously Form Cathode Interlayers in OPVs. <i>Langmuir</i> , 2015, 31, 6721-6728.	3.5	9
44	Directed migration of additives to form top interlayers in polymer light emitting diodes. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12744-12751.	5.5	8
45	One-step processing of multilayers in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8992-8998.	5.5	7
46	Control over in-channel mesostructure orientation through AAM surface modification. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13637.	2.8	5
47	Understanding and Promoting Molecular Interactions and Charge Transfer in Dye-Mediated Hybrid Photovoltaic Materials. <i>Journal of Physical Chemistry C</i> , 2014, 118, 25374-25391.	3.1	5
48	Synthesis of ordered mesostructured TiO thin films from tetrahydrofuran-water solutions. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 708-715.	4.4	4
49	Hexagonal patterns in thin films: Experiments and modeling. <i>Extreme Mechanics Letters</i> , 2015, 2, 65-71.	4.1	4
50	Blends of polymer semiconductor and polymer electrolyte for mixed ionic and electronic conductivity. <i>Journal of Materials Chemistry C</i> , 2021, 9, 7765-7777.	5.5	4
51	Self-assembled block copolymer templates for atomic layer deposition: The effect of processing solvent. <i>Polymer</i> , 2016, 105, 214-220.	3.8	3
52	Little probe, big data. <i>Nature Materials</i> , 2019, 18, 776-777.	27.5	3
53	Universal electrode for ambipolar charge injection in organic electronic devices. <i>Materials Horizons</i> , 2022, 9, 2138-2146.	12.2	3
54	The effect of thermal annealing on additive migration to the organic/metal interface in OPVs. , 2015, , .		2

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55	The hole in the bucky: structure-property mapping of closed- vs. open-cage fullerene solar-cell blends via temperature/composition phase diagrams. Journal of Materials Chemistry C, 0, , .	5.5	2
56	Beneficial Interaction between nickel oxide nanoparticles and polyethylene oxide as printable nanocomposite hole injection layer for organic solar cells. , 0, , .		0