

Pulak Dutta

List of Publications by Year in descending order

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citations

117571

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times ranked

4480
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific Ion Effects in Lanthanide Amphiphile Structures at the Air-Water Interface and Their Implications for Selective Separation. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 7504-7512.	4.0	14
2	Ionic Liquid Solutions Show Anomalous Crowding Behavior at an Electrode Surface. <i>Langmuir</i> , 2022, 38, 6322-6329.	1.6	4
3	Interfacial Density Profiles of Polar and Nonpolar Liquids at Hydrophobic Surfaces. <i>Langmuir</i> , 2020, 36, 906-910.	1.6	7
4	Electrostatic Origin of Element Selectivity during Rare Earth Adsorption. <i>Physical Review Letters</i> , 2019, 122, 058001.	2.9	18
5	Ultraslow Dynamics at a Charged Silicon-Ionic Liquid Interface Revealed by X-ray Reflectivity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3841-3845.	1.5	39
6	Atomic Number Dependent Structural Transitions in Ordered Lanthanide Monolayers: Role of the Hydration Shell. <i>Langmuir</i> , 2017, 33, 1412-1418.	1.6	13
7	Observation of Ordered Structures in Counterion Layers near Wet Charged Surfaces: A Potential Mechanism for Charge Inversion. <i>Langmuir</i> , 2016, 32, 73-77.	1.6	14
8	Crowding and Anomalous Capacitance at an Electrode-Ionic Liquid Interface Observed Using Operando X-ray Scattering. <i>ACS Central Science</i> , 2016, 2, 175-180.	5.3	47
9	Effect of Solvent Polarizability on the Assembly and Ordering of Nanoscale Polyhedral Oligomeric Silsesquioxane Films. <i>Langmuir</i> , 2014, 30, 196-202.	1.6	4
10	What x rays can tell us about the interfacial profile of water near hydrophobic surfaces. <i>Physical Review B</i> , 2013, 88, .	1.1	57
11	Composite Molecular Assemblies: Nanoscale Structural Control and Spectroelectrochemical Diversity. <i>Journal of the American Chemical Society</i> , 2013, 135, 16533-16544.	6.6	22
12	Assembly of Amorphous Clusters under Floating Monolayers: A Comparison of <i>in Situ</i> and <i>ex Situ</i> Techniques. <i>Langmuir</i> , 2013, 29, 14361-14368.	1.6	10
13	Assembly of Surface-Confined Homochiral Helicates: Chiral Discrimination of DOPA and Unidirectional Charge Transfer. <i>Journal of the American Chemical Society</i> , 2013, 135, 17052-17059.	6.6	52
14	Coordination-Based Molecular Assemblies of Oligofurans and Oligothiophenes. <i>Chemistry - A European Journal</i> , 2013, 19, 8821-8831.	1.7	20
15	Controlling growth of self-propagating molecular assemblies. <i>Chemical Science</i> , 2012, 3, 66-71.	3.7	18
16	Charge, Stereochemistry, or Epitaxy? Toward Controlled Biomimetic Nucleation at Mixed Monolayer Templates. <i>Langmuir</i> , 2012, 28, 572-578.	1.6	12
17	Synergism in Multicomponent Self-Propagating Molecular Assemblies. <i>Langmuir</i> , 2011, 27, 1319-1325.	1.6	14
18	Morphological behavior of thin polyhedral oligomeric silsesquioxane films at the molecular scale. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 793-799.	5.0	9

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19	Orientation and morphology of calcite nucleated under floating monolayers: A magnesium-ion-enhanced nucleation study. <i>Journal of Crystal Growth</i> , 2011, 319, 64-69.	0.7	7
20	Reverse Self-Assembly: (111)-Oriented Gold Crystallization at Alkylthiol Monolayer Templates. <i>Physical Review Letters</i> , 2011, 107, 115503.	2.9	12
21	Chattopadhyay et al. Reply. <i>Physical Review Letters</i> , 2011, 107, .	2.9	9
22	Designing Surface-Confined Coordination Oligomers. <i>Chemistry - A European Journal</i> , 2010, 16, 6744-6747.	1.7	13
23	Surface order in cold liquids: X-ray reflectivity studies of dielectric liquids and comparison to liquid metals. <i>Physical Review B</i> , 2010, 81, .	1.1	11
24	How Water Meets a Very Hydrophobic Surface. <i>Physical Review Letters</i> , 2010, 105, 037803.	2.9	72
25	Control of Thin Liquid Film Morphology During Solvent-Assisted Film Deposition. <i>Langmuir</i> , 2010, 26, 7126-7132.	1.6	2
26	Stepwise Assembly of Coordination-Based Metal-Organic Networks. <i>Journal of the American Chemical Society</i> , 2010, 132, 14554-14561.	6.6	57
27	Epitaxy driven interactions at the organic-inorganic interface during biomimetic growth of calcium oxalate. <i>CrystEngComm</i> , 2010, 12, 2025.	1.3	11
28	Positive Constructs: Charges Localized on Surface-Confined Organometallic Oligomers. <i>Chemistry of Materials</i> , 2009, 21, 4676-4684.	3.2	25
29	Structural Signal of a Dynamic Glass Transition. <i>Physical Review Letters</i> , 2009, 103, 175701.	2.9	15
30	Effects of chitosan on the alignment, morphology and shape of calcite crystals nucleating under Langmuir monolayers. <i>CrystEngComm</i> , 2009, 11, 130-134.	1.3	9
31	Self-Propagating Assembly of a Molecular-Based Multilayer. <i>Journal of the American Chemical Society</i> , 2008, 130, 8913-8915.	6.6	78
32	Characterization of Transparent Conducting Oxide Surfaces Using Self-Assembled Electroactive Monolayers. <i>Langmuir</i> , 2008, 24, 5755-5765.	1.6	32
33	Observation of an Organic-Inorganic Lattice Match during Biomimetic Growth of (001)-Oriented Calcite Crystals under Floating Sulfate Monolayers. <i>Langmuir</i> , 2008, 24, 10579-10582.	1.6	22
34	Molecular Assembly of a 3D-Ordered Multilayer. <i>Journal of the American Chemical Society</i> , 2008, 130, 5040-5041.	6.6	54
35	Observation of a liquid-to-layered transition in thin liquid films when surface and interface regions overlap. <i>Physical Review E</i> , 2008, 77, 030601.	0.8	5
36	Temperature dependence of surface layering in a dielectric liquid. <i>Physical Review B</i> , 2007, 76, .	1.1	9

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37	Triarylamine siloxane anode functionalization/hole injection layers in high efficiency/high luminance small-molecule green- and blue-emitting organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2007, 101, 093101.	1.1	30
38	Mechanisms for species-selective oriented crystal growth at organic templates. <i>Journal of Materials Research</i> , 2007, 22, 2785-2790.	1.2	0
39	Reversible Redox-Based Optical Sensing of Parts per Million Levels of Nitrosyl Cation in Organic Solvents by Osmium Chromophore-Based Monolayers. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4655-4660.	1.5	21
40	Pathways for oriented assembly of inorganic crystals at organic surfaces. <i>Thin Solid Films</i> , 2007, 515, 5627-5630.	0.8	4
41	Influence of molecular rigidity on interfacial ordering in diphenyl-based polysiloxane films. <i>Polymer</i> , 2007, 48, 7163-7168.	1.8	4
42	Controlling Structure from the Bottom-Up: Structural and Optical Properties of Layer-by-Layer Assembled Palladium Coordination-Based Multilayers. <i>Journal of the American Chemical Society</i> , 2006, 128, 7374-7382.	6.6	146
43	Strategies for Electrooptic Film Fabrication. Influence of Pyrrole-Pyridine-Based Dibranching Chromophore Architecture on Covalent Self-Assembly, Thin-Film Microstructure, and Nonlinear Optical Response. <i>Journal of the American Chemical Society</i> , 2006, 128, 2142-2153.	6.6	73
44	X-ray Reflectivity Study of Ultrathin Liquid Films of Diphenylsiloxane-Dimethylsiloxane Copolymers. <i>Langmuir</i> , 2006, 22, 6245-6248.	1.6	10
45	Systematic Investigation of Nanoscale Adsorbate Effects at Organic Light-Emitting Diode Interfaces. Interfacial Structure-Charge Injection-Luminance Relationships. <i>Chemistry of Materials</i> , 2006, 18, 2431-2442.	3.2	55
46	Conformational rearrangements in interfacial region of polydimethylsiloxane melt films. <i>Polymer</i> , 2006, 47, 878-882.	1.8	21
47	X-Shaped Electro-optic Chromophore with Remarkably Blue-Shifted Optical Absorption. Synthesis, Characterization, Linear/Nonlinear Optical Properties, Self-Assembly, and Thin Film Microstructural Characteristics. <i>Journal of the American Chemical Society</i> , 2006, 128, 6194-6205.	6.6	131
48	Aggregation-governed oriented growth of inorganic crystals at an organic template. <i>Journal of Chemical Physics</i> , 2006, 125, 224713.	1.2	7
49	Observation of Surface Layering in a Nonmetallic Liquid. <i>Physical Review Letters</i> , 2006, 96, 096107.	2.9	50
50	Ordering of liquid squalane near a solid surface. <i>Chemical Physics Letters</i> , 2005, 415, 106-109.	1.2	28
51	"BIOINSPIRED" INORGANIC FILM GROWTH AT ORGANIC TEMPLATES. <i>International Journal of Nanoscience</i> , 2005, 04, 849-854.	0.4	0
52	Photoinduced Deprotection and ZnO Patterning of Hydroxyl-Terminated Siloxane-Based Monolayers. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14144-14153.	1.2	15
53	Covalently Bound Hole-Injecting Nanostructures. Systematics of Molecular Architecture, Thickness, Saturation, and Electron-Blocking Characteristics on Organic Light-Emitting Diode Luminance, Turn-on Voltage, and Quantum Efficiency. <i>Journal of the American Chemical Society</i> , 2005, 127, 10227-10242.	6.6	154
54	High-Performance Hole-Transport Layers for Polymer Light-Emitting Diodes. Implementation of Organosiloxane Cross-Linking Chemistry in Polymeric Electroluminescent Devices. <i>Journal of the American Chemical Society</i> , 2005, 127, 3172-3183.	6.6	286

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55	Covalent Assembly of Stilbene-Based Monolayers: Factors Controlling Molecular Interactions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 17505-17511.	1.2	31
56	Vapor Phase Self-Assembly of Electrooptic Thin Films via Triple Hydrogen Bonds. <i>Journal of the American Chemical Society</i> , 2003, 125, 11496-11497.	6.6	57
57	Hot Microcontact Printing for Patterning ITO Surfaces. Methodology, Morphology, Microstructure, and OLED Charge Injection Barrier Imaging. <i>Langmuir</i> , 2003, 19, 86-93.	1.6	64
58	Interrupted-Growth Studies of the Self-Assembly of Intrinsically Acentric Siloxane-Derived Monolayers. <i>Langmuir</i> , 2003, 19, 10531-10537.	1.6	26
59	Layer-by-Layer Self-Assembled Pyrrole-Based Donor-Acceptor Chromophores as Electro-Optic Materials. <i>Chemistry of Materials</i> , 2003, 15, 1064-1072.	3.2	150
60	Self-assembly of Photofunctional Siloxane-Based Calix[4]arenes on Oxide Surfaces. <i>Chemistry of Materials</i> , 2003, 15, 4068-4074.	3.2	40
61	Molecularly Engineered Anode Adsorbates for Probing OLED Interfacial Structure Charge Injection/Luminance Relationships: Large, Structure-Dependent Effects. <i>Journal of the American Chemical Society</i> , 2003, 125, 14704-14705.	6.6	59
62	Effects of Shear Flow on Interfacial Ordering in Liquids: X-ray Scattering Studies. <i>Langmuir</i> , 2003, 19, 9558-9561.	1.6	21
63	Mechanism of Pb Adsorption to Fatty Acid Langmuir Monolayers Studied by X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9780-9788.	1.2	30
64	Organic-template-directed nucleation of strontium fluoride and barium fluoride: Epitaxy and strain. <i>Physical Review B</i> , 2003, 68, .	1.1	21
65	Evidence of Registry at the Interface during Inorganic Nucleation at an Organic Template. <i>Physical Review Letters</i> , 2002, 89, 186102.	2.9	36
66	Anode Interfacial Engineering Approaches to Enhancing Anode/Hole Transport Layer Interfacial Stability and Charge Injection Efficiency in Organic Light-Emitting Diodes. <i>Langmuir</i> , 2002, 18, 9958-9970.	1.6	94
67	Azinium (π-Bridge) Pyrrole NLO-Phores: Influence of Heterocycle Acceptors on Chromophoric and Self-Assembled Thin-Film Properties#. <i>Chemistry of Materials</i> , 2002, 14, 4996-5005.	3.2	102
68	Realization of Expedient Layer-by-Layer Siloxane-Based Self-assembly as an Efficient Route to Structurally Regular Acentric Superlattices with Large Electro-optic Responses. <i>Chemistry of Materials</i> , 2002, 14, 4982-4989.	3.2	70
69	Nanoscale Consecutive Self-Assembly of Thin-Film Molecular Materials for Electrooptic Switching. Chemical Streamlining and Ultrahigh Response Chromophores. <i>Langmuir</i> , 2002, 18, 3704-3707.	1.6	41
70	Nanometer-Scale Dielectric Self-assembly Process for Anode Modification in Organic Light-Emitting Diodes. Consequences for Charge Injection and Enhanced Luminous Efficiency. <i>Chemistry of Materials</i> , 2002, 14, 3054-3065.	3.2	40
71	Ordering in the Subphase of a Langmuir Monolayer: X-ray Diffraction and Anomalous Scattering Studies. <i>Langmuir</i> , 2001, 17, 4697-4700.	1.6	33
72	The Effects of Divalent Ions on Langmuir Monolayer and Subphase Structure: A Grazing-Incidence Diffraction and Bragg Rod Study. <i>Journal of Physical Chemistry B</i> , 2001, 105, 10818-10825.	1.2	77

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73	Single Reactor Route to Polar Superlattices. Layer-by-Layer Self-Assembly of Large-Response Molecular Electrooptic Materials by Protection~Deprotection. Chemistry of Materials, 2001, 13, 15-17.	3.2	52
74	Self-Assembly Processes for Organic LED Electrode Passivation and Charge Injection Balance. Advanced Materials, 1999, 11, 227-231.	11.1	98
75	Structure and phase transitions in Langmuir monolayers. Reviews of Modern Physics, 1999, 71, 779-819.	16.4	1,361
76	Studies of monolayers using synchrotron X-ray diffraction. Current Opinion in Solid State and Materials Science, 1997, 2, 557-562.	5.6	14
77	Self-Assembled Chromophoric NLO-Active Monolayers. X-ray Reflectivity and Second-Harmonic Generation as Complementary Probes of Building Block~Film Microstructure Relationships. Langmuir, 1996, 12, 4218-4223.	1.6	49
78	New Nonlinear Optical Materials: Expedient Topotactic Self-Assembly of Acentric Chromophoric Superlattices. Angewandte Chemie International Edition in English, 1995, 34, 1497-1499.	4.4	46
79	Layer-by-Layer Molecular Assembly Approaches to the Construction of Thin Films Having High Second-Order Optical Nonlinearities. Materials Research Society Symposia Proceedings, 1992, 247, 779.	0.1	3
80	X-ray diffraction studies of the effects of calcium(2+) and copper(2+) on Langmuir monolayers of heneicosanoic acid. Langmuir, 1990, 6, 1665-1667.	1.6	41
81	Formation of multilayers of dipalmitoylphosphatidylcholine using the Langmuir-Blodgett technique. Langmuir, 1987, 3, 1096-1097.	1.6	36