

Subrata Ghosh

List of Publications by Year in descending order

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papers

692
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516710

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49
times ranked

770
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#	ARTICLE	IF	CITATIONS
1	Through Structural Isomerism: Positional Effect of Alkyne Functionality on Molecular Optical Properties. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	2
2	Solution-processable phenothiazine and phenoxazine substituted fluorene cored nanotextured hole transporting materials for achieving high-efficiency OLEDs. <i>Journal of Materials Chemistry C</i> , 2022, 10, 3593-3608.	5.5	20
3	Organosulfur/Selenium-Based Highly Fluorogenic Molecular Probes for Live-Cell Nucleolus Imaging. <i>Chemistry - an Asian Journal</i> , 2022, 17, .	3.3	2
4	Structural and spectroscopic characterization of pyrene derived carbon nano dots: a single-particle level analysis. <i>Nanoscale</i> , 2022, 14, 3568-3578.	5.6	6
5	Near-infrared emissive cyanine probes for selective visualization of the physiological and pathophysiological modulation of albumin levels. <i>Journal of Materials Chemistry B</i> , 2022, 10, 3657-3666.	5.8	2
6	Organotin bearing polymeric resists for electron beam lithography. <i>Microelectronic Engineering</i> , 2022, 260, 111795.	2.4	5
7	Functional Pyrene-Pyridine-Integrated Hole-Transporting Materials for Solution-Processed OLEDs with Reduced Efficiency Roll-Off. <i>ACS Omega</i> , 2021, 6, 10515-10526.	3.5	12
8	Fluorescent Probe for Selective Imaging of α -Synuclein Fibrils in Living Cells. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1293-1298.	3.5	21
9	Organoiodine Functionality Bearing Resists for Electron-Beam and Helium Ion Beam Lithography: Complex and Sub-16 nm Patterning. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1996-2004.	4.3	16
10	Through Positional Isomerism: Impact of Molecular Composition on Enhanced Triplet Harvest for Solution-Processed OLED Efficiency Improvement. <i>ACS Applied Electronic Materials</i> , 2021, 3, 2317-2332.	4.3	14
11	High-Throughput Virtual Screening of Host Materials and Rational Device Engineering for Highly Efficient Solution-Processed Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26204-26217.	8.0	22
12	Configuring device architecture with new solution-processable host for high performance low color-temperature OLEDs with ultra-low driving voltage. <i>Organic Electronics</i> , 2021, 93, 106127.	2.6	3
13	Elusive Toxin in <i>Cleistanthus collinus</i> Causing Vasoconstriction and Myocardial Depression: Detailed NMR Analyses and Biological Studies of Cleistanthoside A. <i>ACS Omega</i> , 2021, 6, 24553-24561.	3.5	1
14	Solution-processed hybrid hosts: a way to explore high triplet energy with admirable current and power efficiency without outcoupling techniques for phosphorescent OLEDs. <i>Journal of Materials Chemistry C</i> , 2020, 8, 228-239.	5.5	11
15	Resists for Helium Ion Beam Lithography: Recent Advances. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3805-3817.	4.3	16
16	A Novel Near Infrared Spectroscopy Based Device for Albumin Estimation. , 2020, 2020, 6123-6126.		1
17	Organotin in Nonchemically Amplified Polymeric Hybrid Resist Imparts Better Resolution with Sensitivity for Next-Generation Lithography. <i>ACS Applied Polymer Materials</i> , 2020, 2, 1790-1799.	4.4	21
18	Focusing on nanoparticles based photomultiplier in n-CARs. , 2020, , .		2

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19	Molecular Scale Optimum Hydrophobicity To Establish an Enhanced Probe-Protein Interaction: Near-Infrared Imaging of Albumin Biosynthesis Modulation. <i>ACS Applied Bio Materials</i> , 2019, 2, 3372-3379.	4.6	4
20	Long Range Emissive Water-Soluble Fluorogenic Molecular Platform for Imaging Carbon Monoxide in Live Cells. <i>ACS Applied Bio Materials</i> , 2019, 2, 5427-5433.	4.6	10
21	Triggered emission for rapid detection of hydrogen sulfide chaperoned by large Stokes shift. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 264-270.	3.9	11
22	Enhanced mechanical properties of the high-resolution EUVL patterns of hybrid photoresists containing hexafluoroantimonate. <i>Microelectronic Engineering</i> , 2018, 194, 100-108.	2.4	4
23	Ferrocene Bearing Non-ionic Poly-aryl Tosylates: Synthesis, Characterization and Electron Beam Lithography Applications. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2018, 31, 669-678.	0.3	2
24	Blue Luminescent Organic Light Emitting Diode Devices of a New Class of Star-Shaped Columnar Mesogens Exhibiting H_2O -Driven Supergelation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 23659-23674.	3.1	30
25	Helium ion active hybrid non-chemically amplified resist (n-CAR) for sub-10 nm patterning applications. , 2018, , .		3
26	Evaluation of high-resolution and sensitivity of n-CAR hybrid resist for sub-16nm or below technology node. , 2018, , .		2
27	Emergence through delicate balance between the steric factor and molecular orientation: a highly bright and photostable DNA marker for real-time monitoring of cell growth dynamics. <i>Chemical Communications</i> , 2017, 53, 2571-2574.	4.1	14
28	A photoacid generator integrated terpolymer for electron beam lithography applications: sensitive resist with pattern transfer potential. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1895-1899.	5.9	11
29	Modified Atomic Orbital Overlap: Molecular Level Proof of the Nucleophilic Cleavage Propensity of Dinitrophenol-Based Probes. <i>Journal of Organic Chemistry</i> , 2017, 82, 4713-4720.	3.2	2
30	Polyarylenesulfonium Salt as a Novel and Versatile Nonchemically Amplified Negative Tone Photoresist for High-Resolution Extreme Ultraviolet Lithography Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17-21.	8.0	21
31	Heavy metal incorporated helium ion active hybrid non-chemically amplified resists: Nano-patterning with low line edge roughness. <i>AIP Advances</i> , 2017, 7, 085314.	1.3	12
32	Renal Clearable New NIR Probe: Precise Quantification of Albumin in Biofluids and Fatty Liver Disease State Identification through Tissue Specific High Contrast Imaging in Vivo. <i>Analytical Chemistry</i> , 2017, 89, 10343-10352.	6.5	28
33	Role of Voluminous Substituents in Controlling the Optical Properties of Disc/Planar-Like Small Organic Molecules: Toward Molecular Emission in Solid State. <i>ACS Omega</i> , 2017, 2, 5348-5356.	3.5	7
34	Organic-inorganic hybrid photoresists containing hexafluoroantimonate: design, synthesis and high resolution EUV lithography studies. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2613-2619.	5.9	13
35	Dendritic Polynitrato Energetic Motifs: Development and Exploration of Physicochemical Behavior through Theoretical and Experimental Approach. <i>ACS Omega</i> , 2017, 2, 8227-8233.	3.5	12
36	Pristine Graphene-Copper(II) Oxide Nanocatalyst: A Novel and Green Approach in CuAAC Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7632-7641.	6.7	30

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37	Design, development, EUVL applications and nano mechanical properties of a new HfO ₂ based hybrid non-chemically amplified resist. RSC Advances, 2016, 6, 67143-67149.	3.6	28
38	Recent advances in non-chemically amplified photoresists for next generation IC technology. RSC Advances, 2016, 6, 74462-74481.	3.6	32
39	Patterning highly ordered arrays of complex nanofeatures through EUV directed polarity switching of non chemically amplified photoresist. Scientific Reports, 2016, 6, 22664.	3.3	9
40	Femtosecond insights into direct electron injection in dye anchored ZnO QDs following charge transfer excitation. Physical Chemistry Chemical Physics, 2016, 18, 20672-20681.	2.8	11
41	Biomolecular recognition at the cellular level: geometrical and chemical functionality dependence of a low phototoxic cationic probe for DNA imaging. Journal of Materials Chemistry B, 2016, 4, 4895-4900.	5.8	3
42	Optical signaling in biofluids: a nondenaturing photostable molecular probe for serum albumins. Chemical Communications, 2016, 52, 1887-1890.	4.1	46
43	Packing directed beneficial role of 3-D rigid alicyclic arms on the templated molecular aggregation problem. RSC Advances, 2015, 5, 61249-61257.	3.6	3
44	At the Molecular Level through Photophysical Studies: Structural Implications on the Reactivity of Dual-Site Sensitive Positional Isomers Toward a Gasotransmitter (H ₂ S). Journal of Physical Chemistry C, 2015, 119, 19367-19375.	3.1	6
45	Performance evaluation of nonchemically amplified negative tone photoresists for e-beam and EUV lithography. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2014, 13, 043002.	0.9	22
46	Towards novel non-chemically amplified (n-CARS) negative resists for electron beam lithography applications. Journal of Materials Chemistry C, 2014, 2, 2118.	5.5	21
47	Engineering fused coumarin dyes: a molecular level understanding of aggregation quenching and tuning electroluminescence via alkyl chain substitution. Journal of Materials Chemistry C, 2014, 2, 6637.	5.5	53
48	Radiation-Sensitive Novel Polymeric Resist Materials: Iterative Synthesis and Their EUV Fragmentation Studies. ACS Applied Materials & Interfaces, 2014, 6, 4223-4232.	8.0	44
49	Functional Molecular Lumino-Materials to Probe Serum Albumins: Solid Phase Selective Staining Through Noncovalent Fluorescent Labeling. ACS Applied Materials & Interfaces, 2014, 6, 10231-10237.	8.0	21