

Subrata Ghosh

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6238371/publications.pdf>

Version: 2024-02-01

49
papers

692
citations

516710

16
h-index

610901

24
g-index

49
all docs

49
docs citations

49
times ranked

770
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Engineering fused coumarin dyes: a molecular level understanding of aggregation quenching and tuning electroluminescence via alkyl chain substitution. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6637. | 5.5 | 53 |
| 2 | Optical signaling in biofluids: a nondenaturing photostable molecular probe for serum albumins. <i>Chemical Communications</i> , 2016, 52, 1887-1890. | 4.1 | 46 |
| 3 | Radiation-Sensitive Novel Polymeric Resist Materials: Iterative Synthesis and Their EUV Fragmentation Studies. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 4223-4232. | 8.0 | 44 |
| 4 | Recent advances in non-chemically amplified photoresists for next generation IC technology. <i>RSC Advances</i> , 2016, 6, 74462-74481. | 3.6 | 32 |
| 5 | 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 |
| 6 | 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 |
| 7 | Design, development, EUVL applications and nano mechanical properties of a new HfO ₂ based hybrid non-chemically amplified resist. <i>RSC Advances</i> , 2016, 6, 67143-67149. | 3.6 | 28 |
| 8 | 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 |
| 9 | Performance evaluation of nonchemically amplified negative tone photoresists for e-beam and EUV lithography. <i>Journal of Micro/ Nanolithography, MEMS, and MOEMS</i> , 2014, 13, 043002. | 0.9 | 22 |
| 10 | 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 |
| 11 | Towards novel non-chemically amplified (n-CARS) negative resists for electron beam lithography applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2118. | 5.5 | 21 |
| 12 | Functional Molecular Lumino-Materials to Probe Serum Albumins: Solid Phase Selective Staining Through Noncovalent Fluorescent Labeling. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 10231-10237. | 8.0 | 21 |
| 13 | 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 |
| 14 | 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 |
| 15 | Fluorescent Probe for Selective Imaging of α -Synuclein Fibrils in Living Cells. <i>ACS Chemical Neuroscience</i> , 2021, 12, 1293-1298. | 3.5 | 21 |
| 16 | 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 |
| 17 | Resists for Helium Ion Beam Lithography: Recent Advances. <i>ACS Applied Electronic Materials</i> , 2020, 2, 3805-3817. | 4.3 | 16 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Femtosecond insights into direct electron injection in dye anchored ZnO QDs following charge transfer excitation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 20672-20681. | 2.8 | 11 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | 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 |
| 30 | Patterning highly ordered arrays of complex nanofeatures through EUV directed polarity switching of non chemically amplified photoresist. <i>Scientific Reports</i> , 2016, 6, 22664. | 3.3 | 9 |
| 31 | 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 |
| 32 | At the Molecular Level through Photophysical Studies: Structural Implications on the Reactivity of Dual-Site Sensitive Positional Isomers Toward a Gasotransmitter (H ₂ S). <i>Journal of Physical Chemistry C</i> , 2015, 119, 19367-19375. | 3.1 | 6 |
| 33 | 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 |
| 34 | Organotin bearing polymeric resists for electron beam lithography. <i>Microelectronic Engineering</i> , 2022, 260, 111795. | 2.4 | 5 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | Configuring device architecture with new solution-processable host for high performance low color-temperature OLEDs with ultra-low driving voltage. Organic Electronics, 2021, 93, 106127. | 2.6 | 3 |
| 40 | Helium ion active hybrid non-chemically amplified resist (n-CAR) for sub-10 nm patterning applications. , 2018, , . | | 3 |
| 41 | Modified Atomic Orbital Overlap: Molecular Level Proof of the Nucleophilic Cleavage Propensity of Dinitrophenol-Based Probes. Journal of Organic Chemistry, 2017, 82, 4713-4720. | 3.2 | 2 |
| 42 | Ferrocene Bearing Non-ionic Poly-aryl Tosylates: Synthesis, Characterization and Electron Beam Lithography Applications. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2018, 31, 669-678. | 0.3 | 2 |
| 43 | Evaluation of high-resolution and sensitivity of n-CAR hybrid resist for sub-16nm or below technology node. , 2018, , . | | 2 |
| 44 | Focusing on nanoparticles based photomultiplier in n-CARs. , 2020, , . | | 2 |
| 45 | Through Structural Isomerism: Positional Effect of Alkyne Functionality on Molecular Optical Properties. Physical Chemistry Chemical Physics, 2022, , . | 2.8 | 2 |
| 46 | Organosulfur/Selenium-Based Highly Fluorogenic Molecular Probes for Live-Cell Nucleolus Imaging. Chemistry - an Asian Journal, 2022, 17, . | 3.3 | 2 |
| 47 | Near-infrared emissive cyanine probes for selective visualization of the physiological and pathophysiological modulation of albumin levels. Journal of Materials Chemistry B, 2022, 10, 3657-3666. | 5.8 | 2 |
| 48 | A Novel Near Infrared Spectroscopy Based Device for Albumin Estimation. , 2020, 2020, 6123-6126. | | 1 |
| 49 | Elusive Toxin in <i>Cleistanthus collinus</i> Causing Vasoconstriction and Myocardial Depression: Detailed NMR Analyses and Biological Studies of Cleistanthoside A. ACS Omega, 2021, 6, 24553-24561. | 3.5 | 1 |