

Sufal Swaraj

List of Publications by Year in descending order

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56
papers

1,520
citations

279798

23
h-index

315739

38
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56
all docs

56
docs citations

56
times ranked

2084
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomorphology of Bulk Heterojunction Photovoltaic Thin Films Probed with Resonant Soft X-ray Scattering. <i>Nano Letters</i> , 2010, 10, 2863-2869.	9.1	182
2	Calibrated NEXAFS spectra of common conjugated polymers. <i>Journal of Chemical Physics</i> , 2011, 134, 024702.	3.0	111
3	Influence of Annealing and Interfacial Roughness on the Performance of Bilayer Donor/Acceptor Polymer Photovoltaic Devices. <i>Advanced Functional Materials</i> , 2010, 20, 4329-4337.	14.9	105
4	Surface Analysis of Plasma Deposited Polymer Films, 7. <i>Plasma Processes and Polymers</i> , 2006, 3, 288-298.	3.0	72
5	HERMES: a soft X-ray beamline dedicated to X-ray microscopy. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 968-979.	2.4	70
6	Intracellular amorphous Ca-carbonate and magnetite biomineralization by a magnetotactic bacterium affiliated to the Alphaproteobacteria. <i>ISME Journal</i> , 2021, 15, 1-18.	9.8	52
7	Evolution of the nanomorphology of photovoltaic polyfluorene blends: sub-100 nm resolution with x-ray spectromicroscopy. <i>Nanotechnology</i> , 2008, 19, 424015.	2.6	47
8	Study of influence of external plasma parameters on plasma polymerised films prepared from organic molecules (acrylic acid, allyl alcohol, allyl amine) using XPS and NEXAFS. <i>Surface and Coatings Technology</i> , 2005, 200, 494-497.	4.8	45
9	Surface Analysis of Plasma-Deposited Polymer Films, 6. <i>Plasma Processes and Polymers</i> , 2005, 2, 572-580.	3.0	42
10	Engineering biodegradable polymer blends containing flame retardant-coated starch/nanoparticles. <i>Polymer</i> , 2012, 53, 4787-4799.	3.8	35
11	Spectroscopic characterization of single-walled carbon nanotubes carrier-doped by encapsulation of TCNQ. <i>Physical Review B</i> , 2005, 71, .	3.2	34
12	The utility of resonant soft x-ray scattering and reflectivity for the nanoscale characterization of polymers. <i>European Physical Journal: Special Topics</i> , 2009, 167, 121-126.	2.6	34
13	Surface Analysis of Plasma-Deposited Polymer Films, 1. <i>Plasma Processes and Polymers</i> , 2004, 1, 123-133.	3.0	32
14	Face-on orientation of fluorinated polymers conveyed by long alkyl chains: a prerequisite for high photovoltaic performances. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12038-12045.	10.3	32
15	Soft x-ray microscopy with 7 nm resolution. <i>Optica</i> , 2020, 7, 1602.	9.3	31
16	7 nm Spatial Resolution in Soft X-ray Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 272-273.	0.4	29
17	Surface Analysis of Plasma Deposited Polymer Films, 5. <i>Plasma Processes and Polymers</i> , 2005, 2, 563-571.	3.0	28
18	Surface Analysis of Plasma-Deposited Polymer Films, 2. <i>Plasma Processes and Polymers</i> , 2004, 1, 134-140.	3.0	27

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19	Interfaces in organic devices studied with resonant soft x-ray reflectivity. <i>Journal of Applied Physics</i> , 2011, 110, .	2.5	27
20	Silicon Phthalocyanines for n-Type Organic Thin-Film Transistors: Development of Structure-Property Relationships. <i>ACS Applied Electronic Materials</i> , 2021, 3, 325-336.	4.3	27
21	Surface analysis of plasma-deposited polymer films by Time of Flight Static Secondary Ion Mass Spectrometry (ToF-SSIMS) before and after exposure to ambient air. <i>Surface and Coatings Technology</i> , 2005, 200, 463-467.	4.8	26
22	Aging of Plasma-Deposited Films Prepared from Organic Monomers. <i>Plasma Processes and Polymers</i> , 2007, 4, S784-S789.	3.0	26
23	Effect of Chalcogens on Electronic and Photophysical Properties of Vinylene-Based Diketopyrrolopyrrole Copolymers. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11307-11316.	2.6	25
24	Surface Analysis of Plasma-Deposited Polymer Films, 3. <i>Plasma Processes and Polymers</i> , 2004, 1, 141-152.	3.0	24
25	Resonant Soft X-ray Scattering of Polymers with a 2D Detector: Initial Results and System Developments at the Advanced Light Source. <i>IOP Conference Series: Materials Science and Engineering</i> , 2010, 14, 012016.	0.6	24
26	Backside-illuminated scientific CMOS detector for soft X-ray resonant scattering and ptychography. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1577-1589.	2.4	23
27	Magnetite magnetosome biomineralization in <i>Magnetospirillum magneticum</i> strain AMB-1: A time course study. <i>Chemical Geology</i> , 2019, 530, 119348.	3.3	22
28	Surface Chemical Analysis of Plasma-Deposited Copolymer Films Prepared from Feed Gas Mixtures of Ethylene or Styrene with Allyl Alcohol. <i>Plasma Processes and Polymers</i> , 2007, 4, 376-389.	3.0	21
29	Exploiting atomic layer deposition for fabricating sub-10 nm X-ray lenses. <i>Microelectronic Engineering</i> , 2018, 191, 91-96.	2.4	21
30	Non-Destructive Sub-Surface Chemical Characterization of Air-Exposed Plasma Polymers by Energy-Resolved XPS. <i>Plasma Processes and Polymers</i> , 2010, 7, 474-481.	3.0	20
31	X-ray microscopic investigation of molecular orientation in a hole carrier thin film for organic solar cells. <i>Nano Research</i> , 2018, 11, 2771-2782.	10.4	20
32	Surface Analysis of Plasma-Deposited Polymer Films, 4. <i>Plasma Processes and Polymers</i> , 2005, 2, 310-318.	3.0	18
33	Surface Chemical Analysis of Plasma-Deposited Copolymer Films Prepared from Feed Gas Mixtures of Ethylene or Styrene with Allylamine. <i>Plasma Processes and Polymers</i> , 2008, 5, 92-104.	3.0	18
34	XANES studies of titanium dioxide nanoparticles synthesized by using <i>Peltophorum pterocarpum</i> plant extract. <i>Physica B: Condensed Matter</i> , 2016, 503, 86-92.	2.7	18
35	Synthetically facile organic solar cells with >4% efficiency using P3HT and a silicon phthalocyanine non-fullerene acceptor. <i>Materials Advances</i> , 2021, 2, 2594-2599.	5.4	18
36	Ptychography at the carbon K-edge. <i>Communications Materials</i> , 2022, 3, .	6.9	18

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37	Highlighting the processing versatility of a silicon phthalocyanine derivative for organic thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 485-495.	5.5	16
38	Radio frequency (r.f.) plasma-deposited polymer films: influence of external plasma parameters as viewed by comprehensive in-situ surface chemical analysis by XAS, XPS and ToF-SIMS. <i>Surface and Interface Analysis</i> , 2006, 38, 522-525.	1.8	14
39	Characterisation of plasma polymers by thermoluminescence. <i>Surface and Coatings Technology</i> , 2006, 201, 543-552.	4.8	14
40	Performance of the HERMES beamline at the carbon K-edge. <i>Journal of Physics: Conference Series</i> , 2017, 849, 012046.	0.4	13
41	Shell thickness determination for PTFE-PS core-shell nanoparticles using scanning transmission X-ray microscopy (STXM). <i>Surface and Interface Analysis</i> , 2018, 50, 1077-1082.	1.8	8
42	A pressure-actuated flow cell for soft X-ray spectromicroscopy in liquid media. <i>Lab on A Chip</i> , 2020, 20, 3213-3229.	6.0	8
43	Static ToF-SIMS analysis of plasma chemically deposited ethylene/allyl alcohol co-polymer films. <i>Applied Surface Science</i> , 2006, 252, 6588-6590.	6.1	7
44	Lignans in Knotwood of Norway Spruce: Localisation with Soft X-ray Microscopy and Scanning Transmission Electron Microscopy with Energy Dispersive X-ray Spectroscopy. <i>Molecules</i> , 2020, 25, 2997.	3.8	7
45	Differences in NEXAFS of odd/even long chain n-alkane crystals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 191, 60-64.	1.7	6
46	Soft X-ray characterization of halide perovskite film by scanning transmission X-ray microscopy. <i>Scientific Reports</i> , 2022, 12, 4520.	3.3	6
47	Correlating Morphology, Molecular Orientation, and Transistor Performance of Bis(pentafluorophenoxy)silicon Phthalocyanine Using Scanning Transmission X-ray Microscopy. <i>Chemistry of Materials</i> , 2022, 34, 4496-4504.	6.7	4
48	Ageing Studies of Plasma Deposited Organic Films by Surface Chemical Analysis (ESCA, ToF-SIMS, XAS). <i>Materials Science Forum</i> , 2007, 539-543, 623-628.	0.3	3
49	NEXAFS microscopy of polymeric materials: Successes and challenges encountered when characterizing organic devices. <i>Journal of Physics: Conference Series</i> , 2009, 186, 012102.	0.4	3
50	STXM Chemical Mapping of Norway Spruce Knotwood Lignans. <i>Microscopy and Microanalysis</i> , 2018, 24, 482-483.	0.4	2
51	X-ray spectromicroscopy of nanoparticulate iron oxide phases. <i>Biointerphases</i> , 2016, 11, 04B402.	1.6	1
52	Simultaneous surface and bulk sensitive XAS measurements of magnetic particle clusters. <i>Journal of Physics: Conference Series</i> , 2017, 849, 012014.	0.4	1
53	How do Magnetotactic Bacteria Synthesize Magnetite? - a Soft X-ray Spectroscopy, Spectromicroscopy and Magnetism Time Course Study. <i>Microscopy and Microanalysis</i> , 2018, 24, 378-379.	0.4	1
54	Analysis of Cr(VI) Bioremediation by <i>Citrobacter freundii</i> Using Synchrotron Soft X-ray Scanning Transmission X-ray Microscopy. <i>Quantum Beam Science</i> , 2021, 5, 28.	1.2	1

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55	Spatial distribution of starch, proteins and lipids in maize endosperm probed by scanning transmission X-ray microscopy. Journal of Spectral Imaging, 0, , .	0.0	1
56	Development of a fluidic cell to image precipitation reactions by x-ray microscopy. , 2017, , .		0