

Horst-GÃ¼nter Rubahn

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4122546/publications.pdf>

Version: 2024-02-01

58
papers

1,159
citations

361296

20
h-index

414303

32
g-index

60
all docs

60
docs citations

60
times ranked

1941
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-based drug designing and immunoinformatics approach for SARS-CoV-2. <i>Science Advances</i> , 2020, 6, eabb8097.	4.7	138
2	Dynamics of Photoinduced Degradation of Perovskite Photovoltaics: From Reversible to Irreversible Processes. <i>ACS Applied Energy Materials</i> , 2018, 1, 799-806.	2.5	85
3	Reconsidering figures of merit for performance and stability of perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2018, 11, 739-743.	15.6	79
4	Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO ₂ Thin Film. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14983-14992.	4.0	75
5	Diamond like carbon nanocomposites with embedded metallic nanoparticles. <i>Reports on Progress in Physics</i> , 2018, 81, 024501.	8.1	45
6	Crystalline Molybdenum Oxide Thin-Films for Application as Interfacial Layers in Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7717-7724.	4.0	44
7	Light-emitting organic nanoaggregates from functionalized p-quaterylenes. <i>Soft Matter</i> , 2008, 4, 277-285.	1.2	42
8	Highly Stable Monocrystalline Silver Clusters for Plasmonic Applications. <i>Langmuir</i> , 2017, 33, 6062-6070.	1.6	40
9	Tuning the optoelectronic properties of amorphous MoO _x films by reactive sputtering. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	35
10	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41570-41579.	4.0	34
11	The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes. <i>Scientific Reports</i> , 2017, 7, 5300.	1.6	26
12	Crystalline Molybdenum Oxide Layers as Efficient and Stable Hole Contacts in Organic Photovoltaic Devices. <i>ACS Applied Energy Materials</i> , 2019, 2, 420-427.	2.5	26
13	Cauliflower-like CeO ₂ –TiO ₂ hybrid nanostructures with extreme photocatalytic and self-cleaning properties. <i>Nanoscale</i> , 2019, 11, 9840-9844.	2.8	24
14	Efficient Roll-On Transfer Technique for Well-Aligned Organic Nanofibers. <i>Small</i> , 2011, 7, 2460-2463.	5.2	23
15	Long-term stabilization of organic solar cells using UV absorbers. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 125604.	1.3	23
16	Long-term stabilization of organic solar cells using hydroperoxide decomposers as additives. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	23
17	Electrospun ZnO nanofiber interlayers for enhanced performance of organic photovoltaic devices. <i>Solar Energy</i> , 2020, 197, 311-316.	2.9	23
18	4P-NPD ultra-thin films as efficient exciton blocking layers in DBP/C ₇₀ based organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 385101.	1.3	21

#	ARTICLE	IF	CITATIONS
19	Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800465.	1.9	21
20	Degradation pathways in standard and inverted DBP-C70 based organic solar cells. <i>Scientific Reports</i> , 2019, 9, 4024.	1.6	20
21	2D materials for organic and perovskite photovoltaics. <i>Nano Energy</i> , 2022, 94, 106833.	8.2	20
22	Degradation Behavior of Scalable Nonfullerene Organic Solar Cells Assessed by Outdoor and Indoor ISOS Stability Protocols. <i>Energy Technology</i> , 2020, 8, 2000295.	1.8	19
23	Nonlinear Optical Response of SbSI Nanorods Dominated with Direct Band Gaps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15441-15447.	1.5	18
24	Plasmonic metasurface Luneburg lens. <i>Photonics Research</i> , 2019, 7, 1112.	3.4	16
25	Work function mapping of MoOx thin-films for application in electronic devices. <i>Ultramicroscopy</i> , 2017, 183, 99-103.	0.8	15
26	Meat and fish freshness evaluation by functionalized cantilever-based biosensors. <i>Microsystem Technologies</i> , 2020, 26, 867-871.	1.2	15
27	Organic nanofibers integrated by transfer technique in field-effect transistor devices. <i>Nanoscale Research Letters</i> , 2011, 6, 319.	3.1	14
28	Surface plasmon polariton generation by light scattering off aligned organic nanofibers. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 249.	0.9	14
29	Current Matching in Multifold DBP/C70 Organic Solar Cells With Open-Circuit Voltages of up to 6.44 V. <i>IEEE Journal of Photovoltaics</i> , 2017, 7, 1319-1323.	1.5	13
30	Tailoring of Silver Nanoparticle Size Distributions in Hydrogenated Amorphous Diamond-Like Carbon Nanocomposite Thin Films by Direct Femtosecond Laser Interference Patterning. <i>Advanced Engineering Materials</i> , 2020, 22, 1900951.	1.6	12
31	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. <i>ACS Applied Energy Materials</i> , 2020, 3, 253-259.	2.5	12
32	Local excitation of surface plasmon polaritons by second-harmonic generation in crystalline organic nanofibers. <i>Optics Express</i> , 2012, 20, 16715.	1.7	11
33	Surface plasmon polariton excitation by second harmonic generation in single organic nanofibers. <i>Optics Express</i> , 2015, 23, 16356.	1.7	11
34	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 6562-6573.	2.5	11
35	ITO with embedded silver grids as transparent conductive electrodes for large area organic solar cells. <i>Nanotechnology</i> , 2017, 28, 405303.	1.3	10
36	Efficient Coupling of Single Organic Molecules to Channel Plasmon Polaritons Supported by V-Grooves in Monocrystalline Gold. <i>ACS Photonics</i> , 2020, 7, 2211-2218.	3.2	10

#	ARTICLE	IF	CITATIONS
37	Surface plasmon polariton dispersion relation at organic/dielectric/metal interfaces. Optics Communications, 2014, 331, 77-81.	1.0	8
38	Optimizing Piezoelectric Cantilever Design for Electronic Nose Applications. Chemosensors, 2020, 8, 114.	1.8	8
39	Breath Biomarkers as Disease Indicators: Sensing Techniques Approach for Detecting Breath Gas and COVID-19. Chemosensors, 2022, 10, 167.	1.8	8
40	Micro-cantilevers for optical sensing of biogenic amines. Microsystem Technologies, 2018, 24, 363-369.	1.2	7
41	Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity. Journal of Materials Chemistry C, 2021, 9, 11838-11850.	2.7	7
42	Dibenzo-tetraphenyl diindeno perylene as hole transport layer for high-bandgap perovskite solar cells. Emergent Materials, 2020, 3, 109-116.	3.2	6
43	Excitation of surface plasmon polaritons by fluorescent light from organic nanofibers. Optics Communications, 2017, 402, 630-634.	1.0	5
44	Anomalous Anisotropy in Superconducting Nanodiamond Films Induced by Crystallite Geometry. Physical Review Applied, 2019, 12, .	1.5	5
45	Height patterning of nanostructured surfaces with a focused helium ion beam: a precise and gentle non-sputtering method. Nanotechnology, 2020, 31, 145303.	1.3	5
46	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. Physical Review Materials, 2019, 3, .	0.9	5
47	Nanoengineered Antiviral Fibrous Arrays with Rose-Thorn-Inspired Architectures. , 2021, 3, 1566-1571.		5
48	On-substrate fabrication of porous Al ₂ O ₃ templates with tunable pore diameters and interpore distances. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
49	Photo-induced degradation mechanisms in 4P-NPD thin films. Organic Electronics, 2018, 63, 114-119.	1.4	4
50	Surface Modification Enabling Reproducible Cantilever Functionalization for Industrial Gas Sensors. Sensors, 2021, 21, 6041.	2.1	4
51	On-chip immunomagnetic separation of bacteria by in-flow dynamic manipulation of paramagnetic beads. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	2
52	Functionalizing micro-cantilevers for meat degradation measurements. , 2016, , .		2
53	Out-of-plane surface patterning by subsurface processing of polymer substrates with focused ion beams. Beilstein Journal of Nanotechnology, 2020, 11, 1693-1703.	1.5	2
54	Development of an Immunomagnetic Separation Method for Viable <i>Salmonella</i> Typhimurium Detected by Flow Cytometry. OnLine Journal of Biological Sciences, 2016, 16, 165-174.	0.2	1

#	ARTICLE	IF	CITATIONS
55	Functionalized Surfaces as a Tool for Virus Sensing: A Demonstration of Human mastadenovirus Detection in Environmental Waters. Chemosensors, 2021, 9, 19.	1.8	1
56	Formation of Si Nanorods and Discrete Nanophases by Axial Diffusion of Si from Substrate into Au and AuPt Nanoalloy Nanorods. Nanomaterials, 2020, 10, 68.	1.9	0
57	Additive-Assisted Stabilization Against Photooxidation of Organic and Hybrid Solar Cells. , 2022, , 169-193.		0
58	Para-hexaphenylene (p-6P) nanofibers grown on a silver surface for polarization-insensitive surface plasmon polariton excitation. Optics Communications, 2022, 511, 127995.	1.0	0