

# Horst-Günter Rubahn

## List of Publications by Year in descending order

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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	Additive-Assisted Stabilization Against Photooxidation of Organic and Hybrid Solar Cells. , 2022, , 169-193.		0
2	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
3	2D materials for organic and perovskite photovoltaics. Nano Energy, 2022, 94, 106833.	8.2	20
4	Breath Biomarkers as Disease Indicators: Sensing Techniques Approach for Detecting Breath Gas and COVID-19. Chemosensors, 2022, 10, 167.	1.8	8
5	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
6	Bias-Dependent Dynamics of Degradation and Recovery in Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 6562-6573.	2.5	11
7	Nonlinear Optical Response of SbSI Nanorods Dominated with Direct Band Gaps. Journal of Physical Chemistry C, 2021, 125, 15441-15447.	1.5	18
8	Surface Modification Enabling Reproducible Cantilever Functionalization for Industrial Gas Sensors. Sensors, 2021, 21, 6041.	2.1	4
9	Functionalized Surfaces as a Tool for Virus Sensing: A Demonstration of Human mastadenovirus Detection in Environmental Waters. Chemosensors, 2021, 9, 19.	1.8	1
10	Nanoengineered Antiviral Fibrous Arrays with Rose-Thorn-Inspired Architectures. , 2021, 3, 1566-1571.		5
11	Meat and fish freshness evaluation by functionalized cantilever-based biosensors. Microsystem Technologies, 2020, 26, 867-871.	1.2	15
12	Tailoring of Silver Nanoparticle Size Distributions in Hydrogenated Amorphous Diamond-Like Carbon Nanocomposite Thin Films by Direct Femtosecond Laser Interference Patterning. Advanced Engineering Materials, 2020, 22, 1900951.	1.6	12
13	Sputter-Deposited Titanium Oxide Layers as Efficient Electron Selective Contacts in Organic Photovoltaic Devices. ACS Applied Energy Materials, 2020, 3, 253-259.	2.5	12
14	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
15	Optimizing Piezoelectric Cantilever Design for Electronic Nose Applications. Chemosensors, 2020, 8, 114.	1.8	8
16	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
17	Dibenzo-tetraphenyl diindeno perylene as hole transport layer for high-bandgap perovskite solar cells. Emergent Materials, 2020, 3, 109-116.	3.2	6
18	Structure-based drug designing and immunoinformatics approach for SARS-CoV-2. Science Advances, 2020, 6, eabb8097.	4.7	138

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO <sub>2</sub> Thin Film. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 14983-14992.	4.0	75
22	Formation of Si Nanorods and Discrete Nanophases by Axial Diffusion of Si from Substrate into Au and AuPt Nanoalloy Nanorods. <i>Nanomaterials</i> , 2020, 10, 68.	1.9	0
23	Electrospun ZnO nanofiber interlayers for enhanced performance of organic photovoltaic devices. <i>Solar Energy</i> , 2020, 197, 311-316.	2.9	23
24	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 41570-41579.	4.0	34
25	Degradation pathways in standard and inverted DBP-C70 based organic solar cells. <i>Scientific Reports</i> , 2019, 9, 4024.	1.6	20
26	Cauliflower-like CeO <sub>2</sub> @TiO <sub>2</sub> hybrid nanostructures with extreme photocatalytic and self-cleaning properties. <i>Nanoscale</i> , 2019, 11, 9840-9844.	2.8	24
27	Anomalous Anisotropy in Superconducting Nanodiamond Films Induced by Crystallite Geometry. <i>Physical Review Applied</i> , 2019, 12, .	1.5	5
28	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
29	Superconductor-insulator transition driven by pressure-tuned intergrain coupling in nanodiamond films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
30	Plasmonic metasurface Luneburg lens. <i>Photonics Research</i> , 2019, 7, 1112.	3.4	16
31	Reconsidering figures of merit for performance and stability of perovskite photovoltaics. <i>Energy and Environmental Science</i> , 2018, 11, 739-743.	15.6	79
32	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
33	Micro-cantilevers for optical sensing of biogenic amines. <i>Microsystem Technologies</i> , 2018, 24, 363-369.	1.2	7
34	Diamond like carbon nanocomposites with embedded metallic nanoparticles. <i>Reports on Progress in Physics</i> , 2018, 81, 024501.	8.1	45
35	Photo-induced degradation mechanisms in 4P-NPD thin films. <i>Organic Electronics</i> , 2018, 63, 114-119.	1.4	4
36	Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO <sub>2</sub> Thin Film. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800465.	1.9	21

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37	Crystalline Molybdenum Oxide Thin-Films for Application as Interfacial Layers in Optoelectronic Devices. ACS Applied Materials & Interfaces, 2017, 9, 7717-7724.	4.0	44
38	Highly Stable Monocrystalline Silver Clusters for Plasmonic Applications. Langmuir, 2017, 33, 6062-6070.	1.6	40
39	Work function mapping of MoOx thin-films for application in electronic devices. Ultramicroscopy, 2017, 183, 99-103.	0.8	15
40	Excitation of surface plasmon polaritons by fluorescent light from organic nanofibers. Optics Communications, 2017, 402, 630-634.	1.0	5
41	ITO with embedded silver grids as transparent conductive electrodes for large area organic solar cells. Nanotechnology, 2017, 28, 405303.	1.3	10
42	Current Matching in Multifold DBP/C70 Organic Solar Cells With Open-Circuit Voltages of up to 6.44 V. IEEE Journal of Photovoltaics, 2017, 7, 1319-1323.	1.5	13
43	The influence of electrical effects on device performance of organic solar cells with nano-structured electrodes. Scientific Reports, 2017, 7, 5300.	1.6	26
44	4P-NPD ultra-thin films as efficient exciton blocking layers in DBP/C70 based organic solar cells. Journal Physics D: Applied Physics, 2017, 50, 385101.	1.3	21
45	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
46	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
47	On-substrate fabrication of porous Al2O3 templates with tunable pore diameters and interpore distances. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	4
48	Functionalizing micro-cantilevers for meat degradation measurements. , 2016, , .		2
49	Long-term stabilization of organic solar cells using UV absorbers. Journal Physics D: Applied Physics, 2016, 49, 125604.	1.3	23
50	Long-term stabilization of organic solar cells using hydroperoxide decomposers as additives. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	23
51	Tuning the optoelectronic properties of amorphous MoOx films by reactive sputtering. Applied Physics Letters, 2015, 106, .	1.5	35
52	Surface plasmon polariton excitation by second harmonic generation in single organic nanofibers. Optics Express, 2015, 23, 16356.	1.7	11
53	Surface plasmon polariton dispersion relation at organic/dielectric/metal interfaces. Optics Communications, 2014, 331, 77-81.	1.0	8
54	Surface plasmon polariton generation by light scattering off aligned organic nanofibers. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 249.	0.9	14

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55	Local excitation of surface plasmon polaritons by second-harmonic generation in crystalline organic nanofibers. Optics Express, 2012, 20, 16715.	1.7	11
56	Organic nanofibers integrated by transfer technique in field-effect transistor devices. Nanoscale Research Letters, 2011, 6, 319.	3.1	14
57	Efficient Roll-On Transfer Technique for Well-Aligned Organic Nanofibers. Small, 2011, 7, 2460-2463.	5.2	23
58	Light-emitting organic nanoaggregates from functionalized p-quaterphenylenes. Soft Matter, 2008, 4, 277-285.	1.2	42