

# Philipp Reineck

## List of Publications by Year in descending order

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Version: 2024-02-01

64  
papers

2,794  
citations

201674

27  
h-index

175258

52  
g-index

69  
all docs

69  
docs citations

69  
times ranked

5090  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Solid-State Plasmonic Solar Cell via Metal Nanoparticle Self-Assembly. <i>Advanced Materials</i> , 2012, 24, 4750-4755.	21.0	212
2	Distance and Wavelength Dependent Quenching of Molecular Fluorescence by Au@SiO <sub>2</sub> Core-Shell Nanoparticles. <i>ACS Nano</i> , 2013, 7, 6636-6648.	14.6	211
3	Optical Thermophoresis for Quantifying the Buffer Dependence of Aptamer Binding. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2238-2241.	13.8	203
4	DNA-Directed Self-Assembly of Core-Satellite Plasmonic Nanostructures: A Highly Sensitive and Reproducible Near-IR SERS Sensor. <i>Advanced Functional Materials</i> , 2013, 23, 1519-1526.	14.9	150
5	Graphene-based active slow surface plasmon polaritons. <i>Scientific Reports</i> , 2015, 5, 8443.	3.3	134
6	Near-Infrared Fluorescent Nanomaterials for Bioimaging and Sensing. <i>Advanced Optical Materials</i> , 2017, 5, 1600446.	7.3	128
7	Oxygen-deficient photostable Cu <sub>2</sub> O for enhanced visible light photocatalytic activity. <i>Nanoscale</i> , 2018, 10, 6039-6050.	5.6	115
8	Plasmonic Hot Electron Solar Cells: The Effect of Nanoparticle Size on Quantum Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4137-4141.	4.6	105
9	Brightness and Photostability of Emerging Red and Near-IR Fluorescent Nanomaterials for Bioimaging. <i>Advanced Optical Materials</i> , 2016, 4, 1549-1557.	7.3	104
10	Effect of Surface Chemistry on the Fluorescence of Detonation Nanodiamonds. <i>ACS Nano</i> , 2017, 11, 10924-10934.	14.6	98
11	Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Frameworks (ZIFs). <i>Small</i> , 2019, 15, e1902268.	10.0	95
12	Thermophoresis of single stranded DNA. <i>Electrophoresis</i> , 2010, 31, 279-286.	2.4	82
13	Increased nitrogen-vacancy centre creation yield in diamond through electron beam irradiation at high temperature. <i>Carbon</i> , 2019, 143, 714-719.	10.3	65
14	UV plasmonic properties of colloidal liquid-metal eutectic gallium-indium alloy nanoparticles. <i>Scientific Reports</i> , 2019, 9, 5345.	3.3	61
15	Stimulated emission from nitrogen-vacancy centres in diamond. <i>Nature Communications</i> , 2017, 8, 14000.	12.8	60
16	Engineering the Interface: Nanodiamond Coating on 3D-Printed Titanium Promotes Mammalian Cell Growth and Inhibits <i>Staphylococcus aureus</i> Colonization. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 24588-24597.	8.0	60
17	Light-Driven Transformation Processes of Anisotropic Silver Nanoparticles. <i>ACS Nano</i> , 2013, 7, 5911-5921.	14.6	59
18	Bright and photostable nitrogen-vacancy fluorescence from unprocessed detonation nanodiamond. <i>Nanoscale</i> , 2017, 9, 497-502.	5.6	56

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19	Not All Fluorescent Nanodiamonds Are Created Equal: A Comparative Study. Particle and Particle Systems Characterization, 2019, 36, 1900009.	2.3	56
20	High-fat diet worsens the impact of aging on microglial function and morphology in a region-specific manner. Neurobiology of Aging, 2019, 74, 121-134.	3.1	52
21	Electrospun Nanodiamond-Silk Fibroin Membranes: A Multifunctional Platform for Biosensing and Wound-Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 48408-48419.	8.0	50
22	Acoustomicrofluidic Synthesis of Pristine Ultrathin Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Nanosheets and Quantum Dots. ACS Nano, 2021, 15, 12099-12108.	14.6	46
23	Visible to near-IR fluorescence from single-digit detonation nanodiamonds: excitation wavelength and pH dependence. Scientific Reports, 2018, 8, 2478.	3.3	37
24	Dynamic self-assembly of detonation nanodiamond in water. Nanoscale, 2020, 12, 5363-5367.	5.6	34
25	The Biomolecular Corona in 2D and Reverse: Patterning Metal-Phenolic Networks on Proteins, Lipids, Nucleic Acids, Polysaccharides, and Fingerprints. Advanced Functional Materials, 2020, 30, 1905805.	14.9	33
26	Fluorescent single-digit detonation nanodiamond for biomedical applications. Methods and Applications in Fluorescence, 2018, 6, 035010.	2.3	32
27	The effect of particle size on nanodiamond fluorescence and colloidal properties in biological media. Nanotechnology, 2019, 30, 385704.	2.6	30
28	Fluorescent color centers in laser ablated 4H-SiC nanoparticles. Optics Letters, 2017, 42, 1297.	3.3	29
29	Super-multiplexed fluorescence microscopy via photostability contrast. Biomedical Optics Express, 2018, 9, 2943.	2.9	27
30	3D-Printed Diamond-Titanium Composite: A Hybrid Material for Implant Engineering. ACS Applied Bio Materials, 2020, 3, 29-36.	4.6	24
31	Fluorescent diamond microparticle doped glass fiber for magnetic field sensing. APL Materials, 2020, 8, .	5.1	24
32	Brilliant blue, green, yellow, and red fluorescent diamond particles: synthesis, characterization, and multiplex imaging demonstrations. Nanoscale, 2019, 11, 11584-11595.	5.6	22
33	Rationally Designed Probe for Reversible Sensing of Zinc and Application in Cells. ACS Omega, 2017, 2, 6201-6210.	3.5	20
34	Multifunctional Smart Fabrics through Nanodiamond-Polyaniline Nanocomposites. ACS Applied Polymer Materials, 2020, 2, 4848-4855.	4.4	20
35	Ultrasmall Nanodiamonds: Perspectives and Questions. ACS Nano, 2022, 16, 8513-8524.	14.6	19
36	Extremely rapid isotropic irradiation of nanoparticles with ions generated in situ by a nuclear reaction. Nature Communications, 2018, 9, 4467.	12.8	18

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37	BrainPhys neuronal medium optimized for imaging and optogenetics in vitro. Nature Communications, 2020, 11, 5550.	12.8	18
38	Spiropyran-Based Nanocarrier: A New Zn <sup>2+</sup> -Responsive Delivery System with Real-Time Intracellular Sensing Capabilities. Chemistry - A European Journal, 2019, 25, 854-862.	3.3	17
39	Magnetic field-induced enhancement of the nitrogen-vacancy fluorescence quantum yield. Nanoscale, 2017, 9, 9299-9304.	5.6	15
40	An organic fluorophore-nanodiamond hybrid sensor for photostable imaging and orthogonal, on-demand biosensing. Scientific Reports, 2017, 7, 15967.	3.3	14
41	Fluorescent Silicon Carbide Nanoparticles. Advanced Optical Materials, 2021, 9, 2100311.	7.3	13
42	Multimodal Imaging and Soft X-Ray Tomography of Fluorescent Nanodiamonds in Cancer Cells. Biotechnology Journal, 2021, 16, e2000289.	3.5	12
43	Acoustomicrofluidic Concentration and Signal Enhancement of Fluorescent Nanodiamond Sensors. Analytical Chemistry, 2021, 93, 16133-16141.	6.5	12
44	Near-Infrared Fluorescence from Silicon- and Nickel-Based Color Centers in High-Pressure High-Temperature Diamond Micro- and Nanoparticles. Advanced Optical Materials, 2020, 8, 2001047.	7.3	11
45	The effect of salt and particle concentration on the dynamic self-assembly of detonation nanodiamonds in water. Nanoscale, 2021, 13, 14110-14118.	5.6	11
46	Fluorescent Nanodiamonds Embedded in Poly- $\mu$ -Caprolactone Fibers as Biomedical Scaffolds. ACS Applied Nano Materials, 2020, 3, 10814-10822.	5.0	10
47	Infrared erbium photoluminescence enhancement in silicon carbide nano-pillars. Journal of Applied Physics, 2021, 130, .	2.5	10
48	Targeting cell surface glycans with lectin-coated fluorescent nanodiamonds. Nanoscale Advances, 2022, 4, 1551-1564.	4.6	10
49	Proximal nitrogen reduces the fluorescence quantum yield of nitrogen-vacancy centres in diamond. New Journal of Physics, 2022, 24, 033053.	2.9	10
50	Fluorescence and Physico-Chemical Properties of Hydrogenated Detonation Nanodiamonds. Journal of Carbon Research, 2020, 6, 7.	2.7	8
51	Large Area Ultrathin InN and Tin Doped InN Nanosheets Featuring 2D Electron Gases. ACS Nano, 2022, 16, 5476-5486.	14.6	8
52	The effect of discrete wavelengths of visible light on the developing murine embryo. Journal of Assisted Reproduction and Genetics, 2022, 39, 1825-1837.	2.5	5
53	Gene Therapy: Encapsulation, Visualization and Expression of Genes with Biomimetically Mineralized Zeolitic Imidazolate Frameworks (ZIFs) (Small 36/2019). Small, 2019, 15, 1970193.	10.0	4
54	Theoretical and experimental investigation of point defects in cubic boron nitride. MRS Advances, 2017, 2, 1545-1550.	0.9	3

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55	Mono- to few-layer non-van der Waals 2D lanthanide-doped NaYF <sub>4</sub> nanosheets with upconversion luminescence. 2D Materials, 2021, 8, 015005.	4.4	3
56	Bioimaging: Near-Infrared Fluorescent Nanomaterials for Bioimaging and Sensing (Advanced Optical) Tj ETQq0 0 0 ggBT /Overlock 10 T	7.35	2
57	Utilising Glycobiology for Fluorescent Nanodiamond Uptake and Imaging in the Central Nervous System. , 2019, , .		2
58	Electrospun diamond-silk membranes for biosensing applications. , 2019, , .		2
59	Microfluidics and Microanalytics to Facilitate Quantitative Assessment of Human Embryo Physiology. , 2019, , 557-566.		1
60	Microdiamond-doped lead-silicate glass optical fibre for remote magnetometry. , 2019, , .		1
61	Multi-coloured fluorescent sensing toolbox for selective detection of Nitroxyl in vitro and ex vivo. Sensors & Diagnostics, 0, , .	3.8	1
62	Bleaching-Assisted Multichannel Microscopy. , 2017, , .		0
63	The effect of nitrogen concentration on quantum sensing with nitrogen-vacancy centres. , 2019, , .		0
64	Multicolor fluorescent nanodiamonds for bioimaging. , 2019, , .		0