

# Darius Pohl

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

1,921  
citations

331538

21  
h-index

254106

43  
g-index

44  
all docs

44  
docs citations

44  
times ranked

3201  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stabilizing the ferroelectric phase in doped hafnium oxide. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	424
2	Lanthanum-Doped Hafnium Oxide: A Robust Ferroelectric Material. <i>Inorganic Chemistry</i> , 2018, 57, 2752-2765.	1.9	241
3	Chemical Aspects of the Candidate Antiferromagnetic Topological Insulator $\text{MnBi}_2\text{Te}_4$ . <i>Chemistry of Materials</i> , 2019, 31, 2795-2806.	3.2	203
4	Ferroelectricity in $\text{Si}$ -Doped $\text{HfO}_2$ Revealed: A Binary Lead-Free Ferroelectric. <i>Advanced Materials</i> , 2014, 26, 8198-8202.	11.1	147
5	Direct Growth of $\text{MoS}_2/\text{h-BN}$ Heterostructures <i>via</i> a Sulfide-Resistant Alloy. <i>ACS Nano</i> , 2016, 10, 2063-2070.	7.3	139
6	Intrinsic Activity of Oxygen Evolution Catalysts Probed at Single $\text{CoFe}_2\text{O}_4$ Nanoparticles. <i>Journal of the American Chemical Society</i> , 2019, 141, 9197-9201.	6.6	87
7	Quantitative Measurement of the Surface Self-Diffusion on Au Nanoparticles by Aberration-Corrected Transmission Electron Microscopy. <i>Nano Letters</i> , 2012, 12, 6071-6077.	4.5	82
8	Increased magnetocrystalline anisotropy in epitaxial Fe-Co-C thin films with spontaneous strain. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	42
9	Single Cr atom catalytic growth of graphene. <i>Nano Research</i> , 2018, 11, 2405-2411.	5.8	41
10	Investigation of band gap and permittivity of the perovskite $\text{CaTiO}_3$ in ultrathin layers. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 415304.	1.3	32
11	Direct Observation of Plasmon Band Formation and Delocalization in Quasi-Infinite Nanoparticle Chains. <i>Nano Letters</i> , 2019, 19, 3854-3862.	4.5	32
12	Research Update: Magnetoionic control of magnetization and anisotropy in layered oxide/metal heterostructures. <i>APL Materials</i> , 2016, 4, .	2.2	30
13	A Silicon Nanowire Ferroelectric Field-Effect Transistor. <i>Advanced Electronic Materials</i> , 2020, 6, 1901244.	2.6	30
14	From soft to hard magnetic $\text{Fe-Co}$ by spontaneous strain: a combined first principles and thin film study. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 476002.	0.7	29
15	Carbon nanotubes terminated with hard magnetic FePt nanomagnets. <i>Applied Physics Letters</i> , 2009, 94, 193107.	1.5	26
16	Electron vortex beams prepared by a spiral aperture with the goal to measure EMCD on ferromagnetic films via STEM. <i>Ultramicroscopy</i> , 2015, 150, 16-22.	0.8	26
17	Induction Mapping of the 3D-Modulated Spin Texture of Skyrmions in Thin Helimagnets. <i>Physical Review Letters</i> , 2018, 120, 217201.	2.9	26
18	Understanding the Metal-Carbon Interface in FePt Catalyzed Carbon Nanotubes. <i>Physical Review Letters</i> , 2011, 107, 185501.	2.9	25

#	ARTICLE	IF	CITATIONS
19	Near-Surface Strain in Icosahedra of Binary Metallic Alloys: Segregational versus Intrinsic Effects. Nano Letters, 2014, 14, 1776-1784.	4.5	25
20	Magnetic properties of single nanomagnets: Electron energy-loss magnetic chiral dichroism on FePt nanoparticles. Ultramicroscopy, 2016, 171, 186-194.	0.8	25
21	Atom size electron vortex beams with selectable orbital angular momentum. Scientific Reports, 2017, 7, 934.	1.6	24
22	EMCD with an electron vortex filter: Limitations and possibilities. Ultramicroscopy, 2017, 179, 15-23.	0.8	21
23	Control of Positive and Negative Magnetoresistance in Iron Oxide/Iron Nanocomposite Thin Films for Tunable Magnetoelectric Nanodevices. ACS Applied Electronic Materials, 2020, 2, 2543-2549.	2.0	18
24	Natural hybrid silica/protein superstructure at atomic resolution. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 31088-31093.	3.3	16
25	Doped Organic Hole Extraction Layers in Efficient PbS and AgBiS <sub>2</sub> Quantum Dot Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 18750-18757.	4.0	16
26	Monolithic Metal/Semiconductor/Metal Heterostructures Enabling Next-Generation Germanium Nanodevices. ACS Applied Materials & Interfaces, 2021, 13, 12393-12399.	4.0	13
27	The effect of oxidation on the surface-near lattice relaxation in FeNi nanoparticles. Journal of Nanoparticle Research, 2011, 13, 5935-5946.	0.8	12
28	On the origin of perpendicular magnetic anisotropy in strained Fe/Co(X) films. Journal Physics D: Applied Physics, 2017, 50, 045003.	1.3	9
29	Lateral Extensions to Nanowires for Controlling Nickel Silicidation Kinetics: Improving Contact Uniformity of Nanoelectronic Devices. ACS Applied Nano Materials, 2021, 4, 4371-4378.	2.4	9
30	A Top-Down Platform Enabling Ge Based Reconfigurable Transistors. Advanced Materials Technologies, 2022, 7, 2100647.	3.0	9
31	Nanoscale magnetic bubbles in Nd <sub>2</sub> B at room temperature. Physical Review B, 2022, 105, .	1.1	8
32	Silicon carbide embedded in carbon nanofibres: structure and band gap determination. Physical Chemistry Chemical Physics, 2014, 16, 24437-24442.	1.3	7
33	Formation and crystallographic orientation of NiSi/Si interfaces. Journal of Applied Physics, 2020, 128, 085301.	1.1	7
34	Solvent-assisted delamination of layered copper dithienothiophene-dicarboxylate (DUT-134). Inorganic Chemistry Frontiers, 2021, 8, 3308-3316.	3.0	7
35	Effect of substrate miscut on the microstructure in epitaxial Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> thin films. Materials Characterization, 2017, 129, 234-241.	1.9	6
36	Atomic layer deposition of yttrium iron garnet thin films. Physical Review Materials, 2022, 6, .	0.9	6

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37	Control of Stripe-Domain-Wall Magnetization in Multilayers Featuring Perpendicular Magnetic Anisotropy. <i>Physical Review Applied</i> , 2021, 16, .	1.5	5
38	Size-Specific Magnetic Configurations in Electrodeposited Epitaxial Iron Nanocuboids: From Landau Pattern to Vortex and Single Domain States. <i>Nano Letters</i> , 2022, 22, 4006-4012.	4.5	5
39	Strengthening of Titanium by Equal Channel Angular Pressing – Impact on Oxide Layer Properties of Pure Titanium and Ti6Al4V. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000552.	1.9	4
40	Controlled Silicidation of Silicon Nanowires Using Flash Lamp Annealing. <i>Langmuir</i> , 2021, , .	1.6	4
41	Electron Vortex Beams for Magnetic Measurements on Ferromagnetic Samples via STEM. <i>Microscopy and Microanalysis</i> , 2015, 21, 505-506.	0.2	1
42	Segregation phenomena in Nd–Fe–B nanoparticles. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	1
43	The Role of Spatial Coherence for the Creation of Atom Size Electron Vortex Beams. <i>Microscopy and Microanalysis</i> , 2018, 24, 920-921.	0.2	1