

Daniel Knez

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

680
citations

687220

13
h-index

580701

25
g-index

48
all docs

48
docs citations

48
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of bimetallic clusters in superfluid helium nanodroplets analysed by atomic resolution electron tomography. <i>Nature Communications</i> , 2015, 6, 8779.	5.8	90
2	Formation of bimetallic core-shell nanowires along vortices in superfluid He nanodroplets. <i>Physical Review B</i> , 2014, 90, .	1.1	66
3	Thermal instabilities and Rayleigh breakup of ultrathin silver nanowires grown in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24570-24575.	1.3	54
4	Synthesis of nanoparticles in helium dropletsâ€”A characterization comparing mass-spectra and electron microscopy data. <i>Journal of Chemical Physics</i> , 2015, 143, 134201.	1.2	52
5	Stability of Coreâ€”Shell Nanoparticles for Catalysis at Elevated Temperatures: Structural Inversion in the Niâ€”Au System Observed at Atomic Resolution. <i>Chemistry of Materials</i> , 2018, 30, 1113-1120.	3.2	44
6	The impact of doping rates on the morphologies of silver and gold nanowires grown in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1451-1459.	1.3	36
7	Thermally induced alloying processes in a bimetallic system at the nanoscale: AgAu sub-5 nm coreâ€”shell particles studied at atomic resolution. <i>Nanoscale</i> , 2018, 10, 2017-2024.	2.8	30
8	Effects of the Core Location on the Structural Stability of Niâ€”Au Coreâ€”Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20037-20043.	1.5	28
9	Thermally induced breakup of metallic nanowires: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9402-9408.	1.3	21
10	Unveiling Oxygen Vacancy Superstructures in Reduced Anatase Thin Films. <i>Nano Letters</i> , 2020, 20, 6444-6451.	4.5	20
11	Modelling electron beam induced dynamics in metallic nanoclusters. <i>Ultramicroscopy</i> , 2018, 192, 69-79.	0.8	19
12	Pulsed laser deposition of oxide and metallic thin films by means of Nd:YAG laser source operating at its 1st harmonics: recent approaches and advances. <i>JPhys Materials</i> , 2021, 4, 032001.	1.8	19
13	Thermally Induced Diffusion and Restructuring of Iron Triade (Fe, Co, Ni) Nanoparticles Passivated by Several Layers of Gold. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16680-16688.	1.5	14
14	New Solar Cellâ€”Battery Hybrid Energy System: Integrating Organic Photovoltaics with Li-Ion and Na-Ion Technologies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19155-19168.	3.2	14
15	Tuning the Optical Absorption of Anatase Thin Films Across the Visible-To-Near-Infrared Spectral Region. <i>Physical Review Applied</i> , 2020, 13, .	1.5	12
16	Structural characterization of poly-Si Films crystallized by Ni Metal Induced Lateral Crystallization. <i>Scientific Reports</i> , 2019, 9, 2844.	1.6	11
17	Helium droplet assisted synthesis of plasmonic Ag@ZnO core@shell nanoparticles. <i>Nano Research</i> , 2020, 13, 2979-2986.	5.8	11
18	Inclusions in Si whiskers grown by Ni metal induced lateral crystallization. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	10

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19	Transformation dynamics of Ni clusters into NiO rings under electron beam irradiation. <i>Ultramicroscopy</i> , 2017, 176, 105-111.	0.8	10
20	Microstructure evolution and mechanical properties of hot deformed Mg ₉ Al ₁ Zn samples containing a friction stir processed zone. <i>Journal of Magnesium and Alloys</i> , 2017, 5, 388-403.	5.5	10
21	On the passivation of iron particles at the nanoscale. <i>Nanoscale Advances</i> , 2019, 1, 2276-2283.	2.2	10
22	Adatom dynamics and the surface reconstruction of Si(110) revealed using time-resolved electron microscopy. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	9
23	Helium nanodroplet assisted synthesis of bimetallic Ag@Au nanoparticles with tunable localized surface plasmon resonance. <i>European Physical Journal D</i> , 2019, 73, 1.	0.6	8
24	Ultra-thin h-BN substrates for nanoscale plasmon spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	8
25	Evidence of Mn-Ion Structural Displacements Correlated with Oxygen Vacancies in La _{0.7} Sr _{0.3} MnO ₃ Interfacial Dead Layers. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 55666-55675.	4.0	8
26	Evidence of a 2D Electron Gas in a Single-Unit Cell of Anatase TiO ₂ (001). <i>Advanced Science</i> , 2022, 9, e2105114.	5.6	7
27	Iron-rich talc as air-stable platform for magnetic two-dimensional materials. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	7
28	Synthesis of nanosized vanadium (V) oxide clusters below 10 nm. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21104-21108.	1.3	6
29	The impact of swift electrons on the segregation of Ni-Au nanoalloys. <i>Applied Physics Letters</i> , 2019, 115, 123103.	1.5	6
30	<i>In Situ</i> Study of Nanoporosity Evolution during Dealloying AgAu and CoPd by Grazing-Incidence Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4037-4047.	1.5	6
31	Oxygen-Driven Metal-Insulator Transition in SrNbO ₃ Thin Films Probed by Infrared Spectroscopy. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	6
32	Improved Structural Properties in Homogeneously Doped Sm _{0.4} Ce _{0.6} O _{2-δ} Epitaxial Thin Films: High Doping Effect on the Electronic Bands. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47556-47563.	4.0	5
33	Study on Ca Segregation toward an Epitaxial Interface between Bismuth Ferrite and Strontium Titanate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12264-12274.	4.0	5
34	Ultrashort XUV pulse absorption spectroscopy of partially oxidized cobalt nanoparticles. <i>Journal of Applied Physics</i> , 2020, 127, 184303.	1.1	4
35	Negatively Charged In-Plane and Out-Of-Plane Domain Walls with Oxygen-Vacancy Agglomerations in a Ca-Doped Bismuth-Ferrite Thin Film. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4498-4508.	2.0	4
36	Automatic indexing of two-dimensional patterns in reciprocal space. <i>Physical Review B</i> , 2021, 104, .	1.1	4

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37	A method for a column-by-column EELS quantification of barium lanthanum ferrate. Ultramicroscopy, 2022, 234, 113477.	0.8	3
38	Publisher's Note. Ultramicroscopy, 2017, 174, 1.	0.8	1
39	Attosecond Spectroscopy of Ultrafast Carrier Dynamics in Nanoparticles. , 2020, , .		1
40	Analytical Electron Tomography: Methods and Applications. Microscopy and Microanalysis, 2015, 21, 2171-2172.	0.2	0
41	10.1063/1.5093472.1. , 2019, , .		0
42	HAADF STEM and Ab Initio Calculations Investigation of Anatase TiO ₂ /LaAlO ₃ Heterointerface. Applied Sciences (Switzerland), 2022, 12, 1489.	1.3	0
43	Vanadium and Manganese Carbonyls as Precursors in Electron-Induced and Thermal Deposition Processes. Nanomaterials, 2022, 12, 1110.	1.9	0