

Daniel Knez

List of Publications by Year in descending order

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43
papers

680
citations

687220

13
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580701

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48
all docs

48
docs citations

48
times ranked

743
citing authors

#	ARTICLE	IF	CITATIONS
1	HAADF STEM and Ab Initio Calculations Investigation of Anatase TiO ₂ /LaAlO ₃ Heterointerface. Applied Sciences (Switzerland), 2022, 12, 1489.	1.3	0
2	A method for a column-by-column EELS quantification of barium lanthanum ferrate. Ultramicroscopy, 2022, 234, 113477.	0.8	3
3	<i>In Situ</i> Study of Nanoporosity Evolution during Dealloying AgAu and CoPd by Grazing-Incidence Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2022, 126, 4037-4047.	1.5	6
4	Vanadium and Manganese Carbonyls as Precursors in Electron-Induced and Thermal Deposition Processes. Nanomaterials, 2022, 12, 1110.	1.9	0
5	Oxygen-Driven Metal-Insulator Transition in SrNbO ₃ Thin Films Probed by Infrared Spectroscopy. Advanced Electronic Materials, 2022, 8, .	2.6	6
6	Evidence of a 2D Electron Gas in a Single-Unit-Cell of Anatase TiO ₂ (001). Advanced Science, 2022, 9, e2105114.	5.6	7
7	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. JPhys Materials, 2021, 4, 032001.	1.8	19
8	Negatively Charged In-Plane and Out-Of-Plane Domain Walls with Oxygen-Vacancy Agglomerations in a Ca-Doped Bismuth-Ferrite Thin Film. ACS Applied Electronic Materials, 2021, 3, 4498-4508.	2.0	4
9	Automatic indexing of two-dimensional patterns in reciprocal space. Physical Review B, 2021, 104, .	1.1	4
10	Evidence of Mn-Ion Structural Displacements Correlated with Oxygen Vacancies in La _{0.7} Sr _{0.3} MnO ₃ Interfacial Dead Layers. ACS Applied Materials & Interfaces, 2021, 13, 55666-55675.	4.0	8
11	Iron-rich talc as air-stable platform for magnetic two-dimensional materials. Npj 2D Materials and Applications, 2021, 5, .	3.9	7
12	Improved Structural Properties in Homogeneously Doped Sm _{0.4} Ce _{0.6} O ₂ Epitaxial Thin Films: High Doping Effect on the Electronic Bands. ACS Applied Materials & Interfaces, 2020, 12, 47556-47563.	4.0	5
13	Thermally Induced Diffusion and Restructuring of Iron Triade (Fe, Co, Ni) Nanoparticles Passivated by Several Layers of Gold. Journal of Physical Chemistry C, 2020, 124, 16680-16688.	1.5	14
14	Helium droplet assisted synthesis of plasmonic Ag@ZnO core@shell nanoparticles. Nano Research, 2020, 13, 2979-2986.	5.8	11
15	Unveiling Oxygen Vacancy Superstructures in Reduced Anatase Thin Films. Nano Letters, 2020, 20, 6444-6451.	4.5	20
16	New Solar Cell-Battery Hybrid Energy System: Integrating Organic Photovoltaics with Li-Ion and Na-Ion Technologies. ACS Sustainable Chemistry and Engineering, 2020, 8, 19155-19168.	3.2	14
17	Ultrashort XUV pulse absorption spectroscopy of partially oxidized cobalt nanoparticles. Journal of Applied Physics, 2020, 127, 184303.	1.1	4
18	Study on Ca Segregation toward an Epitaxial Interface between Bismuth Ferrite and Strontium Titanate. ACS Applied Materials & Interfaces, 2020, 12, 12264-12274.	4.0	5

#	ARTICLE	IF	CITATIONS
19	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
20	Attosecond Spectroscopy of Ultrafast Carrier Dynamics in Nanoparticles. , 2020, , .		1
21	Effects of the Core Location on the Structural Stability of Ni@Au Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 20037-20043.	1.5	28
22	On the passivation of iron particles at the nanoscale. <i>Nanoscale Advances</i> , 2019, 1, 2276-2283.	2.2	10
23	Synthesis of nanosized vanadium(v) oxide clusters below 10 nm. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21104-21108.	1.3	6
24	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
25	Structural characterization of poly-Si Films crystallized by Ni Metal Induced Lateral Crystallization. <i>Scientific Reports</i> , 2019, 9, 2844.	1.6	11
26	The impact of swift electrons on the segregation of Ni-Au nanoalloys. <i>Applied Physics Letters</i> , 2019, 115, 123103.	1.5	6
27	Ultra-thin h-BN substrates for nanoscale plasmon spectroscopy. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	8
28	10.1063/1.5093472.1., 2019, , .		0
29	Stability of Core-Shell Nanoparticles for Catalysis at Elevated Temperatures: Structural Inversion in the Ni@Au System Observed at Atomic Resolution. <i>Chemistry of Materials</i> , 2018, 30, 1113-1120.	3.2	44
30	Thermally induced alloying processes in a bimetallic system at the nanoscale: AgAu sub-5 nm core-shell particles studied at atomic resolution. <i>Nanoscale</i> , 2018, 10, 2017-2024.	2.8	30
31	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
32	Modelling electron beam induced dynamics in metallic nanoclusters. <i>Ultramicroscopy</i> , 2018, 192, 69-79.	0.8	19
33	Thermally induced breakup of metallic nanowires: experiment and theory. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 9402-9408.	1.3	21
34	Inclusions in Si whiskers grown by Ni metal induced lateral crystallization. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	10
35	Transformation dynamics of Ni clusters into NiO rings under electron beam irradiation. <i>Ultramicroscopy</i> , 2017, 176, 105-111.	0.8	10
36	Publisher's Note. <i>Ultramicroscopy</i> , 2017, 174, 1.	0.8	1

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37	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
38	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
39	Synthesis of nanoparticles in helium droplets – A characterization comparing mass-spectra and electron microscopy data. <i>Journal of Chemical Physics</i> , 2015, 143, 134201.	1.2	52
40	Analytical Electron Tomography: Methods and Applications. <i>Microscopy and Microanalysis</i> , 2015, 21, 2171-2172.	0.2	0
41	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
42	Formation of bimetallic clusters in superfluid helium nanodroplets analysed by atomic resolution electron tomography. <i>Nature Communications</i> , 2015, 6, 8779.	5.8	90
43	Formation of bimetallic core-shell nanowires along vortices in superfluid He nanodroplets. <i>Physical Review B</i> , 2014, 90, .	1.1	66