Markus Winterer

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6261628/publications.pdf

Version: 2024-02-01

115	3,322	117625	155660
papers	citations	34 h-index	55 g-index

122	122	122	4817
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unraveling agglomeration and deagglomeration in aqueous colloidal dispersions of very small tin dioxide nanoparticles. Journal of Colloid and Interface Science, 2022, 608, 2681-2693.	9.4	5
2	Nanoceramics by chemical vapour synthesis. International Journal of Materials Research, 2022, 94, 1084-1090.	0.3	0
3	Atom Pair Frequencies as a Quantitative Structureâ€“Activity Relationship for Catalytic 2-Propanol Oxidation over Nanocrystalline Cobaltâ€“Ironâ€“Spinel. Journal of Physical Chemistry C, 2022, 126, 10346-10358.	3.1	4
4	Determining the sintering kinetics of Fe and Fe_xO_y-Nanoparticles in a well-defined model flow reactor. Aerosol Science and Technology, 2022, 56, 833-846.	3.1	8
5	Experimental and numerical study on the influence of equivalence ratio on key intermediates and silica nanoparticles in flame synthesis. Proceedings of the Combustion Institute, 2021, 38, 1375-1383.	3.9	9
6	In situ cell for x-ray absorption spectroscopy of low volatility compound vapors. Review of Scientific Instruments, 2020, 91, 063101.	1.3	5
7	Nanocrystalline Gaâ€“Zn Oxynitride Materials: Minimized Defect Density for Improved Photocatalytic Activity?. Zeitschrift Fur Physikalische Chemie, 2020, 234, 1133-1153.	2.8	5
8	Controlling current flow in sintering: A facile method coupling flash with spark plasma sintering. Review of Scientific Instruments, 2020, 91, 015112.	1.3	14
9	The Role of Excitation Energy in Photobrightening and Photodegradation of Halide Perovskite Thin Films. Journal of Physical Chemistry Letters, 2018, 9, 2062-2069.	4.6	74
10	Nanoparticles generated by combining hot wall and microwave plasma chemical vapor synthesis. MRS Advances, 2018, 3, 213-218.	0.9	2
11	High performance printed oxide field-effect transistors processed using photonic curing. Nanotechnology, 2018, 29, 235205.	2.6	19
12	Optimizing particle characteristics of nanocrystalline aluminum nitride. Powder Technology, 2018, 326, 488-497.	4.2	10
13	Local Structure of Nanocrystalline Aluminum Nitride. Journal of Physical Chemistry C, 2018, 122, 23749-23757.	3.1	1
14	Zinc stannate by reactive laser sintering. Applied Surface Science, 2018, 457, 1174-1180.	6.1	4
15	Tailoring metal oxide nanoparticle dispersions for inkjet printing. Journal of Colloid and Interface Science, 2018, 526, 400-409.	9.4	35
16	Discovering paths to optimized nanoparticle characteristics. Chemical Engineering Science, 2018, 186, 135-141.	3.8	4
17	Models of current sintering. EPJ Web of Conferences, 2017, 140, 13014.	0.3	0
18	Decoupling the Effects of High Crystallinity and Surface Area on the Photocatalytic Overall Water Splitting over Î²â€Ga₂O₃ Nanoparticles by Chemical Vapor Synthesis. ChemSusChem, 2017, 10, 4190-4197.	6.8	15

#	Article	IF	Citations
19	Roomâ€Temperature Processing of Printed Oxide FETs Using Ultraviolet Photonic Curing. Advanced Electronic Materials, 2017, 3, 1600476.	5.1	29
20	Control of nanoparticle agglomeration through variation of the time-temperature profile in chemical vapor synthesis. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	14
21	Chemical vapour synthesis of lanthanum gallium oxide nanoparticles. Journal of the European Ceramic Society, 2015, 35, 3545-3552.	5.7	13
22	Localization of Ag Dopant Atoms in CdSe Nanocrystals by Reverse Monte Carlo Analysis of EXAFS Spectra. Journal of Physical Chemistry C, 2015, 119, 18762-18772.	3.1	36
23	Magnetoelectric coupling on multiferroic cobalt ferriteâ€“barium titanate ceramic composites with different connectivity schemes. Acta Materialia, 2015, 90, 1-9.	7.9	97
24	Interaction of <scp>l</scp>-Cysteine with ZnO: Structure, Surface Chemistry, and Optical Properties. Langmuir, 2015, 31, 5701-5711.	3.5	46
25	NOx conversion properties of a novel material: Iron nanoparticles stabilized in carbon. Applied Catalysis B: Environmental, 2015, 166-167, 211-216.	20.2	11
26	Thermoelectric properties of pulsed current sintered nanocrystalline Al-doped ZnO by chemical vapour synthesis. Journal of Materials Chemistry A, 2015, 3, 189-197.	10.3	48
27	Nanocrystalline Barium Strontium Titanate Ceramics Synthesized via the â€œOrganosolâ€•Route and Spark Plasma Sintering. Journal of the American Ceramic Society, 2014, 97, 2139-2146.	3.8	19
28	Aluminum-doped ZnO nanoparticles: gas-phase synthesis and dopant location. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	17
29	Stable zinc oxide nanoparticle dispersions in ionic liquids. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	11
30	Preserving Particle Characteristics at Increasing Production Rate of ZnO Nanoparticles by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2014, 20, 138-145.	1.3	11
31	Strain state, film and surface morphology of epitaxial topological insulator Bi2Se3 films on Si(111). Thin Solid Films, 2014, 564, 241-245.	1.8	9
32	Effect of preparation of iron-infiltrated activated carbon catalysts on nitrogen oxide conversion at low temperature. Applied Catalysis B: Environmental, 2014, 160-161, 641-650.	20.2	9
33	Blocked-micropores, surface functionalized, bio-compatible and silica-coated iron oxide nanocomposites as advanced MRI contrast agent. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	9
34	Impact of Rapid Thermal Annealing on Thermoelectric Properties of Bulk Nanostructured Zinc Oxide. Materials Research Society Symposia Proceedings, 2013, 1543, 99-104.	0.1	0
35	Structural properties of zinc oxide and titanium dioxide nanoparticles prepared by chemical vapor synthesis. Journal of Alloys and Compounds, 2013, 554, 177-181.	5.5	38
36	Continuous wave ultraviolet-laser sintering of ZnO and TiO2 nanoparticle thin films at low laser powers. Journal of Applied Physics, 2013, 113, .	2.5	14

#	Article	IF	Citations
37	The influence of sintering conditions on the phase purity of bulk EuTiO₃and Eu_{0.5}Ba_{0.5}TiO₃ceramics. Phase Transitions, 2013, 86, 737-747.	1.3	1
38	Spatial high resolution energy dispersive X-ray spectroscopy on thin lamellas. Ultramicroscopy, 2013, 129, 30-35.	1.9	15
39	Influence of the cation alkyl chain length of imidazolium-based room temperature ionic liquids on the dispersibility of TiO2 nanopowders. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	19
40	Thermoelectric Properties of Nanocrystalline Silicon from a Scaledâ€Up Synthesis Plant. Advanced Engineering Materials, 2013, 15, 379-385.	3.5	57
41	Synthesis of Small Hollow ZnO Nanospheres from the Gas Phase. Particle and Particle Systems Characterization, 2013, 30, 434-437.	2.3	8
42	Gas temperature measurements inside a hot wall chemical vapor synthesis reactor. Review of Scientific Instruments, 2012, 83, 114904.	1.3	3
43	Electronic Impurity Doping in CdSe Nanocrystals. Nano Letters, 2012, 12, 2587-2594.	9.1	335
44	Chemical vapor functionalization: a continuous production process for functionalized ZnO nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	3
45	Chemical Vapor Synthesis of Nanocrystalline Oxides. Nanoscience and Technology, 2012, , 49-76.	1.5	11
46	Synthesis and Ink-Jet Printing of Highly Luminescing Silicon Nanoparticles for Printable Electronics. Journal of Nanoscience and Nanotechnology, 2011, 11, 5028-5033.	0.9	11
47	Synthesis of Active Carbon-Based Catalysts by Chemical Vapor Infiltration for Nitrogen Oxide Conversion. Journal of Nanoscience and Nanotechnology, 2011, 11, 7956-7961.	0.9	2
48	Stable Aqueous Dispersions of ZnO Nanoparticles for Ink-Jet Printed Gas Sensors. Journal of Nanoscience and Nanotechnology, 2011, 11, 10839-10843.	0.9	9
49	Chemical Vapor Functionalization of ZnO Nanocrystals. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	2
50	Stable colloidal dispersions of silicon nanoparticles for the fabrication of films using inkjet printing technology. , 2010, , .		1
51	ZnO Nanocrystals: Surprisingly â€˜Aliveâ€™. Chemistry of Materials, 2010, 22, 85-91.	6.7	87
52	Influence of Nucleation Rate on the Yield of ZnO Nanocrystals Prepared by Chemical Vapor Synthesis. Journal of Physical Chemistry C, 2010, 114, 5721-5726.	3.1	9
53	Chemical Vapor Synthesis and Structural Characterization of Nanocrystalline Zn_{1â^'x}Co_xO (x = 0â^'0.50) Particles by X-ray Diffraction and X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2010, 114, 9207-9215.	3.1	28
54	Stable aqueous dispersions of ZnO nanoparticles for ink-jet printed gas sensors. , 2010, , .		0

#	Article	IF	Citations
55	A Novel Approach for Chemical Vapor Synthesis of ZnO Nanocrystals: Optimization of Yield, Crystallinity. Chemical Vapor Deposition, 2009, 15, 192-198.	1.3	28
56	Fabrication and analysis of Cr-doped ZnO nanoparticles from the gas phase. Nanotechnology, 2009, 20, 135604.	2.6	38
57	Electrical properties of aluminum-doped zinc oxide (AZO) nanoparticles synthesized by chemical vapor synthesis. Nanotechnology, 2009, 20, 445701.	2.6	77
58	Influence of the Time-Temperatur-Profile on Powder Characteristics of Nanocrystalline Anatase (TiO2) produced by Chemical Vapor Synthesis. Materials Research Society Symposia Proceedings, 2007, 1056, 1.	0.1	1
59	Chemical vapor synthesis of nanocrystalline perovskites using laser flash evaporation of low volatility solid precursors. Review of Scientific Instruments, 2007, 78, 123903.	1.3	12
60	Gas phase synthesis of zinc oxide nanocrystals and their surface modification using small and large acidic ligands. Materials Research Society Symposia Proceedings, 2007, 1035, 1.	0.1	0
61	Recombination dynamics in ZnO nanoparticles produced by chemical vapor synthesis. Journal of Applied Physics, 2007, 102, 023524.	2.5	17
62	Chemical vapor synthesis and characterization of chromium doped zinc oxide nanoparticles. Journal of the European Ceramic Society, 2007, 27, 4333-4337.	5.7	58
63	Synthesis, characterization and sintering of nanocrystalline titania powders produced by chemical vapour synthesis. Journal Physics D: Applied Physics, 2006, 39, 2248-2254.	2.8	35
64	Synthesis and local structure of doped nanocrystalline zinc oxides. Journal of Applied Physics, 2006, 100, 064311.	2.5	80
65	Synthesis of non-aggregated titania nanoparticles in atmospheric pressure diffusion flames. Powder Technology, 2006, 165, 73-82.	4.2	40
66	Silica-based composite and mixed-oxide nanoparticles from atmospheric pressure flame synthesis. Journal of Nanoparticle Research, 2006, 8, 379-393.	1.9	10
67	Comparison of nanosized zirconia synthesized by gas and liquid phase methods. Journal of the European Ceramic Society, 2006, 26, 3145-3151.	5.7	39
68	Structure and magnetic properties of iron nanoparticles stabilized in carbon. Journal of Applied Physics, 2006, 99, 044306.	2.5	23
69	One-step flame synthesis ofSnO2/TiO2composite nanoparticles for photocatalytic applications. International Journal of Photoenergy, 2005, 7, 153-161.	2.5	66
70	Aerosol mass spectrometer for the in situ analysis of chemical vapor synthesis processes in hot wall reactors. Review of Scientific Instruments, 2005, 76, 095104.	1.3	5
71	Controlling Surface Composition and Zeta Potential of Chemical Vapor Synthesized Alumina-Silica Nanoparticles. Chemical Vapor Deposition, 2004, 10, 71-76.	1.3	9
72	Adsorption mechanisms of trivalent gold on iron- and aluminum-(oxy)hydroxides. Part 1: X-ray absorption and Raman scattering spectroscopic studies of Au(III) adsorbed on ferrihydrite, goethite, and boehmite. Geochimica Et Cosmochimica Acta, 2004, 68, 3019-3042.	3.9	46

#	Article	IF	Citations
73	In-Situ Preparation of Polymer-Coated Alumina Nanopowders by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2003, 9, 40-44.	1.3	21
74	Aluminum-Doped Zirconia Nanopowders:â€‰ Chemical Vapor Synthesis and Structural Analysis by Rietveld Refinement of X-ray Diffraction Data. Chemistry of Materials, 2003, 15, 2668-2674.	6.7	38
75	Nanoceramics by chemical vapour synthesis. International Journal of Materials Research, 2003, 94, 1084-1090.	0.8	10
76	X-ray diffraction, neutron scattering and EXAFS spectroscopy of monoclinic zirconia: analysis by Rietveld refinement and reverse Monte Carlo simulations. Journal of Applied Crystallography, 2002, 35, 434-442.	4.5	58
77	Structure of nanocrystalline anatase solved and refined from electron powder dataPresented at the microsymposium onElectron Crystallography of Small Molecules and Organic Materials, 19th European Crystallographic Meeting, Nancy, France, 25â€“31 August 2000.. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, 308-315.	0.3	41
78	Modeling Particle Formation and Growth. Springer Series in Materials Science, 2002, , 35-90.	0.6	0
79	Gas Phase Synthesis. Springer Series in Materials Science, 2002, , 7-33.	0.6	0
80	Local Structure and Long Range Order. Springer Series in Materials Science, 2002, , 147-226.	0.6	0
81	Processing and Microstructure. Springer Series in Materials Science, 2002, , 91-146.	0.6	4
82	Luminescence properties of nanocrystalline Y[sub 2]O[sub 3]:Eu[sup 3+] in different host materials. Journal of Applied Physics, 2001, 89, 1679.	2.5	252
83	Oxide Powders for Chemical Mechanical Polishing Produced by Chemical Vapor Synthesis. Materials Research Society Symposia Proceedings, 2001, 671, 1.	0.1	2
84	Nanocrystalline Zirconia Ceramics and Films Prepared by Chemical Vapor Synthesis and Deposition. Materials Research Society Symposia Proceedings, 2001, 676, 8141.	0.1	4
85	In-situ Analysis of the Chemical Vapor Synthesis of Nanocrystalline Silicon Carbide by Aerosol Mass Spectrometry. Materials Research Society Symposia Proceedings, 2001, 703, 1.	0.1	0
86	Indium Tin Oxide Nanoparticles Prepared by Chemical Vapor Synthesis. Materials Research Society Symposia Proceedings, 2001, 704, 531.	0.1	2
87	Nanocrystalline Zirconia Surfaceâ€Doped with Alumina: Chemical Vapor Synthesis, Characterization, and Properties. Journal of the American Ceramic Society, 2001, 84, 2771-2776.	3.8	41
88	Photoluminescence properties of nanocrystalline Y 2 O 3 :Eu 3+ in different environments. Scripta Materialia, 2001, 44, 1213-1217.	5.2	49
89	Sintering behavior of nanocrystalline ZrO 2 /Y 2 O 3 mixed ceramics analyzed with SANS. Scripta Materialia, 2001, 44, 2087-2091.	5.2	1
90	Nanocrystalline gradient films through chemical vapor synthesis. Scripta Materialia, 2001, 44, 2165-2168.	5.2	25

#	Article	IF	Citations
91	Nanocrystalline Titania Films and Particles by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2000, 6, 239-244.	1.3	109
92	Nano-sized ceramics of coated alumina and zirconia analyzed with SANS. Journal of Applied Crystallography, 2000, 33, 483-487.	4.5	21
93	Nanocrystalline Al2O3 and ZrO2 powders as aerogels and in aqueous solutions measured with SANS and photon correlation spectroscopy. Physica B: Condensed Matter, 2000, 276-278, 874-875.	2.7	1
94	Rietveld analysis of electron powder diffraction data from nanocrystalline anatase, TiO2. Ultramicroscopy, 2000, 81, 263-270.	1.9	89
95	Reverse Monte Carlo analysis of extended x-ray absorption fine structure spectra of monoclinic and amorphous zirconia. Journal of Applied Physics, 2000, 88, 5635-5644.	2.5	81
96	Sintering, structure, and mechanical properties of nanophase SiC: A molecular-dynamics and neutron scattering study. Applied Physics Letters, 2000, 77, 1132-1134.	3.3	47
97	Sintering Behavior of Nanocrystalline Zirconia Prepared by Chemical Vapor Synthesis. Journal of the American Ceramic Society, 2000, 83, 729-736.	3.8	120
98	Sintering Behavior of Nanocrystalline Zirconia Doped with Alumina Prepared by Chemical Vapor Synthesis. Journal of the American Ceramic Society, 2000, 83, 1853-1860.	3.8	106
99	Gas Phase Synthesis of Nanostructured Films and Coatings. , 2000, , 1-10.		1
100	Nanoscaled Gradient Materials by Chemical Vapor Synthesis. Materials Science Forum, 1999, 308-311, 277-282.	0.3	5
101	Different zirconia-alumina nanopowders by modifications of chemical vapor synthesis. Scripta Materialia, 1999, 12, 95-100.	0.5	30
102	Reduced-Pressure Chemical Vapor Synthesis of Nanocrystalline Silicon Carbide Powders. Chemical Vapor Deposition, 1998, 04, 143-149.	1.3	68
103	Synthesis and Characterization of Nanosized Silicon Carbide. Materials Research Society Symposia Proceedings, 1997, 501, 27.	0.1	2
104	EXAFS of Nanocrystalline Y₂O₃. European Physical Journal Special Topics, 1997, 7, C2-1211-C2-1212.	0.2	6
105	Local structure in nanocrystalline ZrO2 and Y2O3 by EXAFS. Scripta Materialia, 1997, 9, 397-400.	0.5	18
106	XAFS - A Data Analysis Program for Materials Science. European Physical Journal Special Topics, 1997, 7, C2-243-C2-244.	0.2	23
107	X-ray absorption study on nanostructured zirconia and yttria. Nuclear Instruments & Methods in Physics Research B, 1995, 97, 127-132.	1.4	25
108	Structure of nanocrystalline zirvonia and yttria. Scripta Materialia, 1995, 6, 679-682.	0.5	34

#	Article	IF	Citations
109	Phase stability in nanostructured and coarse grained zirconia at high pressures. Scripta Materialia, 1995, 5, 679-688.	0.5	44
110	MÃ¶ssbauer Studies of Nickel-Iron Hydrotalcites. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 1200-1206.	1.5	3
111	155Gd Mossbauer spectra of Gd3+in borate glasses. Journal of Physics Condensed Matter, 1993, 5, 8651-8657.	1.8	0
112	A new probe for local structure: Paramagnetic hyperfine structure in Nd3+ MÃ¶ssbauer spectra. Hyperfine Interactions, 1991, 67, 641-653.	0.5	2
113	Paramagnetic relaxation of Nd3+ in glasses from MÃ¶ssbauer spectra. Hyperfine Interactions, 1989, 50, 807-813.	0.5	2
114	Paramagnetic hyperfine structure in151Eu Mossbauer spectra of Eu2+ions in borate glasses. Journal of Physics C: Solid State Physics, 1987, 20, 5389-5399.	1.5	20
115	Generation of Zinc-Gallium-Oxynitride Nanoparticles from CVS Powders for Photocatalytic Water Splitting. , 0, , .		0