Markus Winterer

List of Publications by Year
in descending order

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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	Electronic Impurity Doping in CdSe Nanocrystals. Nano Letters, 2012, 12, 2587-2594.	9.1	335
2	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
3	Sintering Behavior of Nanocrystalline Zirconia Prepared by Chemical Vapor Synthesis. Journal of the American Ceramic Society, 2000, 83, 729-736.	3.8	120
4	Nanocrystalline Titania Films and Particles by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2000, 6, 239-244.	1.3	109
5	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
6	Magnetoelectric coupling on multiferroic cobalt ferriteâ€“barium titanate ceramic composites with different connectivity schemes. Acta Materialia, 2015, 90, 1-9.	7.9	97
7	Rietveld analysis of electron powder diffraction data from nanocrystalline anatase, TiO2. Ultramicroscopy, 2000, 81, 263-270.	1.9	89
8	ZnO Nanocrystals: Surprisingly â€˜Aliveâ€™. Chemistry of Materials, 2010, 22, 85-91.	6.7	87
9	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
10	Synthesis and local structure of doped nanocrystalline zinc oxides. Journal of Applied Physics, 2006, 100, 064311.	2.5	80
11	Electrical properties of aluminum-doped zinc oxide (AZO) nanoparticles synthesized by chemical vapor synthesis. Nanotechnology, 2009, 20, 445701.	2.6	77
12	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
13	Reduced-Pressure Chemical Vapor Synthesis of Nanocrystalline Silicon Carbide Powders. Chemical Vapor Deposition, 1998, 04, 143-149.	1.3	68
14	One-step flame synthesis ofSnO2/TiO2composite nanoparticles for photocatalytic applications. International Journal of Photoenergy, 2005, 7, 153-161.	2.5	66
15	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
16	Chemical vapor synthesis and characterization of chromium doped zinc oxide nanoparticles. Journal of the European Ceramic Society, 2007, 27, 4333-4337.	5.7	58
17	Thermoelectric Properties of Nanocrystalline Silicon from a Scaledâ€Up Synthesis Plant. Advanced Engineering Materials, 2013, 15, 379-385.	3.5	57
18	Photoluminescence properties of nanocrystalline Y 2 O 3 :Eu 3+ in different environments. Scripta Materialia, 2001, 44, 1213-1217.	5.2	49

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19	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
20	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
21	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
22	Interaction of <scp>l</scp>-Cysteine with ZnO: Structure, Surface Chemistry, and Optical Properties. Langmuir, 2015, 31, 5701-5711.	3.5	46
23	Phase stability in nanostructured and coarse grained zirconia at high pressures. Scripta Materialia, 1995, 5, 679-688.	0.5	44
24	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
25	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
26	Synthesis of non-aggregated titania nanoparticles in atmospheric pressure diffusion flames. Powder Technology, 2006, 165, 73-82.	4.2	40
27	Comparison of nanosized zirconia synthesized by gas and liquid phase methods. Journal of the European Ceramic Society, 2006, 26, 3145-3151.	5.7	39
28	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
29	Fabrication and analysis of Cr-doped ZnO nanoparticles from the gas phase. Nanotechnology, 2009, 20, 135604.	2.6	38
30	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
31	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
32	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
33	Tailoring metal oxide nanoparticle dispersions for inkjet printing. Journal of Colloid and Interface Science, 2018, 526, 400-409.	9.4	35
34	Structure of nanocrystalline zirvonia and yttria. Scripta Materialia, 1995, 6, 679-682.	0.5	34
35	Different zirconia-alumina nanopowders by modifications of chemical vapor synthesis. Scripta Materialia, 1999, 12, 95-100.	0.5	30
36	Roomâ€Temperature Processing of Printed Oxide FETs Using Ultraviolet Photonic Curing. Advanced Electronic Materials, 2017, 3, 1600476.	5.1	29

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37	A Novel Approach for Chemical Vapor Synthesis of ZnO Nanocrystals: Optimization of Yield, Crystallinity. Chemical Vapor Deposition, 2009, 15, 192-198.	1.3	28
38	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
39	X-ray absorption study on nanostructured zirconia and yttria. Nuclear Instruments & Methods in Physics Research B, 1995, 97, 127-132.	1.4	25
40	Nanocrystalline gradient films through chemical vapor synthesis. Scripta Materialia, 2001, 44, 2165-2168.	5.2	25
41	XAFS - A Data Analysis Program for Materials Science. European Physical Journal Special Topics, 1997, 7, C2-243-C2-244.	0.2	23
42	Structure and magnetic properties of iron nanoparticles stabilized in carbon. Journal of Applied Physics, 2006, 99, 044306.	2.5	23
43	Nano-sized ceramics of coated alumina and zirconia analyzed with SANS. Journal of Applied Crystallography, 2000, 33, 483-487.	4.5	21
44	In-Situ Preparation of Polymer-Coated Alumina Nanopowders by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2003, 9, 40-44.	1.3	21
45	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
46	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
47	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
48	High performance printed oxide field-effect transistors processed using photonic curing. Nanotechnology, 2018, 29, 235205.	2.6	19
49	Local structure in nanocrystalline ZrO2 and Y2O3 by EXAFS. Scripta Materialia, 1997, 9, 397-400.	0.5	18
50	Recombination dynamics in ZnO nanoparticles produced by chemical vapor synthesis. Journal of Applied Physics, 2007, 102, 023524.	2.5	17
51	Aluminum-doped ZnO nanoparticles: gas-phase synthesis and dopant location. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	17
52	Spatial high resolution energy dispersive X-ray spectroscopy on thin lamellas. Ultramicroscopy, 2013, 129, 30-35.	1.9	15
53	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
54	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

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55	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
56	Controlling current flow in sintering: A facile method coupling flash with spark plasma sintering. Review of Scientific Instruments, 2020, 91, 015112.	1.3	14
57	Chemical vapour synthesis of lanthanum gallium oxide nanoparticles. Journal of the European Ceramic Society, 2015, 35, 3545-3552.	5.7	13
58	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
59	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
60	Stable zinc oxide nanoparticle dispersions in ionic liquids. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	11
61	Preserving Particle Characteristics at Increasing Production Rate of ZnO Nanoparticles by Chemical Vapor Synthesis. Chemical Vapor Deposition, 2014, 20, 138-145.	1.3	11
62	NOx conversion properties of a novel material: Iron nanoparticles stabilized in carbon. Applied Catalysis B: Environmental, 2015, 166-167, 211-216.	20.2	11
63	Chemical Vapor Synthesis of Nanocrystalline Oxides. Nanoscience and Technology, 2012, , 49-76.	1.5	11
64	Nanoceramics by chemical vapour synthesis. International Journal of Materials Research, 2003, 94, 1084-1090.	0.8	10
65	Silica-based composite and mixed-oxide nanoparticles from atmospheric pressure flame synthesis. Journal of Nanoparticle Research, 2006, 8, 379-393.	1.9	10
66	Optimizing particle characteristics of nanocrystalline aluminum nitride. Powder Technology, 2018, 326, 488-497.	4.2	10
67	Controlling Surface Composition and Zeta Potential of Chemical Vapor Synthesized Alumina-Silica Nanoparticles. Chemical Vapor Deposition, 2004, 10, 71-76.	1.3	9
68	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
69	Stable Aqueous Dispersions of ZnO Nanoparticles for Ink-Jet Printed Gas Sensors. Journal of Nanoscience and Nanotechnology, 2011, 11, 10839-10843.	0.9	9
70	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
71	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
72	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

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73	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
74	Synthesis of Small Hollow ZnO Nanospheres from the Gas Phase. Particle and Particle Systems Characterization, 2013, 30, 434-437.	2.3	8
75	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
76	EXAFS of Nanocrystalline Y₂O₃. European Physical Journal Special Topics, 1997, 7, C2-1211-C2-1212.	0.2	6
77	Nanoscaled Gradient Materials by Chemical Vapor Synthesis. Materials Science Forum, 1999, 308-311, 277-282.	0.3	5
78	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
79	In situ cell for x-ray absorption spectroscopy of low volatility compound vapors. Review of Scientific Instruments, 2020, 91, 063101.	1.3	5
80	Nanocrystalline Gaâ€“Zn Oxynitride Materials: Minimized Defect Density for Improved Photocatalytic Activity?. Zeitschrift Fur Physikalische Chemie, 2020, 234, 1133-1153.	2.8	5
81	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
82	Nanocrystalline Zirconia Ceramics and Films Prepared by Chemical Vapor Synthesis and Deposition. Materials Research Society Symposia Proceedings, 2001, 676, 8141.	0.1	4
83	Zinc stannate by reactive laser sintering. Applied Surface Science, 2018, 457, 1174-1180.	6.1	4
84	Discovering paths to optimized nanoparticle characteristics. Chemical Engineering Science, 2018, 186, 135-141.	3.8	4
85	Processing and Microstructure. Springer Series in Materials Science, 2002, , 91-146.	0.6	4
86	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
87	MÃ¶ssbauer Studies of Nickel-Iron Hydrotalcites. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 1994, 49, 1200-1206.	1.5	3
88	Gas temperature measurements inside a hot wall chemical vapor synthesis reactor. Review of Scientific Instruments, 2012, 83, 114904.	1.3	3
89	Chemical vapor functionalization: a continuous production process for functionalized ZnO nanoparticles. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	3
90	Paramagnetic relaxation of Nd3+ in glasses from MÃ¶ssbauer spectra. Hyperfine Interactions, 1989, 50, 807-813.	0.5	2

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91	A new probe for local structure: Paramagnetic hyperfine structure in Nd3+ MÃ¶ssbauer spectra. Hyperfine Interactions, 1991, 67, 641-653.	0.5	2
92	Synthesis and Characterization of Nanosized Silicon Carbide. Materials Research Society Symposia Proceedings, 1997, 501, 27.	0.1	2
93	Oxide Powders for Chemical Mechanical Polishing Produced by Chemical Vapor Synthesis. Materials Research Society Symposia Proceedings, 2001, 671, 1.	0.1	2
94	Indium Tin Oxide Nanoparticles Prepared by Chemical Vapor Synthesis. Materials Research Society Symposia Proceedings, 2001, 704, 531.	0.1	2
95	Chemical Vapor Functionalization of ZnO Nanocrystals. Materials Research Society Symposia Proceedings, 2010, 1260, 1.	0.1	2
96	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
97	Nanoparticles generated by combining hot wall and microwave plasma chemical vapor synthesis. MRS Advances, 2018, 3, 213-218.	0.9	2
98	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
99	Sintering behavior of nanocrystalline ZrO 2 /Y 2 O 3 mixed ceramics analyzed with SANS. Scripta Materialia, 2001, 44, 2087-2091.	5.2	1
100	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
101	Stable colloidal dispersions of silicon nanoparticles for the fabrication of films using inkjet printing technology. , 2010, , .		1
102	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
103	Local Structure of Nanocrystalline Aluminum Nitride. Journal of Physical Chemistry C, 2018, 122, 23749-23757.	3.1	1
104	Gas Phase Synthesis of Nanostructured Films and Coatings. , 2000, , 1-10.		1
105	155Gd Mossbauer spectra of Gd3+in borate glasses. Journal of Physics Condensed Matter, 1993, 5, 8651-8657.	1.8	0
106	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
107	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
108	Stable aqueous dispersions of ZnO nanoparticles for ink-jet printed gas sensors. , 2010, , .		0

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109	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
110	Models of current sintering. EPJ Web of Conferences, 2017, 140, 13014.	0.3	0
111	Modeling Particle Formation and Growth. Springer Series in Materials Science, 2002, , 35-90.	0.6	0
112	Gas Phase Synthesis. Springer Series in Materials Science, 2002, , 7-33.	0.6	0
113	Local Structure and Long Range Order. Springer Series in Materials Science, 2002, , 147-226.	0.6	0
114	Generation of Zinc-Gallium-Oxynitride Nanoparticles from CVS Powders for Photocatalytic Water Splitting. , 0, , .		0
115	Nanoceramics by chemical vapour synthesis. International Journal of Materials Research, 2022, 94, 1084-1090.	0.3	0