

Joachim Broetz

List of Publications by Year in descending order

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citations

201385

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docs citations

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times ranked

3546
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of Surface Reduction upon Water Adsorption on Oriented NiO Thin Films and Its Relation to Electrochemical Activity. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1303-1315.	1.5	6
2	Effects of Size Reduction on the Electrical Transport Properties of 3D Bi Nanowire Networks. <i>Advanced Electronic Materials</i> , 2021, 7, 2001069.	2.6	12
3	Dual Metastability in Electroless Plating: Complex Inertness Enabling the Deposition of Composition-Tunable Platinum Copper Alloy Nanostructures. <i>Chemistry - A European Journal</i> , 2020, 26, 3030-3033.	1.7	6
4	Interface Behaviour and Work Function Modification of Self-Assembled Monolayers on Sn-Doped In ₂ O ₃ . <i>Surfaces</i> , 2019, 2, 241-256.	1.0	3
5	Electrical Properties of Low-Temperature Processed Sn-Doped In ₂ O ₃ Thin Films: The Role of Microstructure and Oxygen Content and the Potential of Defect Modulation Doping. <i>Materials</i> , 2019, 12, 2232.	1.3	8
6	Enhancing electrical conductivity of room temperature deposited Sn-doped In ₂ O ₃ thin films by hematite seed layers. <i>Applied Physics Letters</i> , 2018, 112, 152105.	1.5	7
7	Electrocatalytic applications of platinum-decorated TiO ₂ nanotubes prepared by a fully wet-chemical synthesis. <i>Journal of Materials Science</i> , 2017, 52, 7754-7767.	1.7	14
8	Systematic Investigation of the Electronic Structure of Hematite Thin Films. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700542.	1.9	16
9	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 31142-31152.	4.0	29
10	Investigations on RF-magnetron sputtered Co ₃ O ₄ thin films regarding the solar energy conversion properties. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 155306.	1.3	34
11	NiCo nanotubes plated on Pd seeds as a designed magnetically recollectable catalyst with high noble metal utilisation. <i>RSC Advances</i> , 2016, 6, 70033-70039.	1.7	24
12	Co _x thin film deposited by CVD as efficient water oxidation catalyst: change of oxidation state in XPS and its correlation to electrochemical activity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10708-10718.	1.3	99
13	Electroless decoration of macroscale foam with nickel nano-spikes: A scalable route toward efficient catalyst electrodes. <i>Electrochemistry Communications</i> , 2016, 65, 39-43.	2.3	26
14	Self-Supporting Metal Nanotube Networks Obtained by Highly Conformal Electroless Plating. <i>ChemPlusChem</i> , 2015, 80, 1448-1456.	1.3	18
15	Chemical and physical properties in layers and interfaces of nanolayered Si(100)/Ni/BC _x N _y stacks. <i>X-Ray Spectrometry</i> , 2015, 44, 48-53.	0.9	1
16	Deep and Shallow TiO ₂ Gap States on Cleaved Anatase Single Crystal (101) Surfaces, Nanocrystalline Anatase Films, and ALD Titania Ante and Post Annealing. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9890-9898.	1.5	48
17	Lightweight aggregates produced from sand sludge and zeolitic rocks. <i>Construction and Building Materials</i> , 2015, 85, 22-29.	3.2	26
18	Facile wet-chemical synthesis of differently shaped cuprous oxide particles and a thin film: Effect of catalyst morphology on the glucose sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 214, 189-196.	4.0	15

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19	Double-Walled Ag-Pt Nanotubes Fabricated by Galvanic Replacement and Dealloying: Effect of Composition on the Methanol Oxidation Activity. <i>Nano</i> , 2015, 10, 1550085.	0.5	13
20	Preparation and characterization of macroporous TiO ₂ -SrTiO ₃ heterostructured monolithic photocatalyst. <i>Materials Letters</i> , 2014, 116, 353-355.	1.3	15
21	Sputter-deposited polycrystalline tantalum-doped SnO ₂ layers. <i>Thin Solid Films</i> , 2014, 555, 173-178.	0.8	29
22	Platinum nanowires with pronounced texture, controlled crystallite size and excellent growth homogeneity fabricated by optimized pulsed electrodeposition. <i>RSC Advances</i> , 2014, 4, 4804.	1.7	14
23	Reactively magnetron sputtered Bi ₂ O ₃ thin films: Analysis of structure, optoelectronic, interface, and photovoltaic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 93-100.	0.8	43
24	Long-range superconducting proximity effect in polycrystalline Co nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	34
25	Hybrid Organotin and Tin Oxide-based Thin Films Processed from Alkynylorganotins: Synthesis, Characterization, and Gas Sensing Properties.. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 17093-17101.	4.0	28
26	Growth and surface properties of epitaxial SnO ₂ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1997-2004.	0.8	24
27	Hierarchically porous carbon membranes containing designed nanochannel architectures obtained by pyrolysis of ion-track etched polyimide. <i>Materials Chemistry and Physics</i> , 2014, 148, 846-853.	2.0	11
28	Fabrication of nitrogen-doped TiO ₂ monolith with well-defined macroporous and bicrystalline framework and its photocatalytic performance under visible light. <i>Journal of the European Ceramic Society</i> , 2014, 34, 809-816.	2.8	35
29	Magnetic and structural approach for understanding the electrochemical behavior of LiNi _{0.33} Co _{0.33} Mn _{0.33} O ₂ positive electrode material. <i>Electrochimica Acta</i> , 2013, 111, 567-574.	2.6	21
30	Energy Band Alignment between Anatase and Rutile TiO ₂ . <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4182-4187.	2.1	210
31	PVD of copper sulfide (Cu ₂ S) for PIN-structured solar cells. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 495112.	1.3	27
32	Electroless synthesis of nanostructured nickel and nickel-boron tubes and their performance as unsupported ethanol electrooxidation catalysts. <i>Journal of Power Sources</i> , 2013, 222, 243-252.	4.0	82
33	Fabrication of porous rhodium nanotube catalysts by electroless plating. <i>Journal of Materials Chemistry</i> , 2012, 22, 12784.	6.7	26
34	Sputter deposition of indium tin oxide onto zinc phthalocyanine: Chemical and electronic properties of the interface studied by photoelectron spectroscopy. <i>Applied Surface Science</i> , 2012, 258, 3913-3919.	3.1	6
35	Crack growth resistance behavior of lanthanum doped bismuth ferrite-lead titanate: Effect of tetragonality and mixed phase crystal structures. <i>Engineering Fracture Mechanics</i> , 2012, 96, 267-275.	2.0	3
36	Nanoscaled tin dioxide films processed from organotin-based hybrid materials: an organometallic route toward metal oxide gas sensors. <i>Nanoscale</i> , 2012, 4, 6806.	2.8	40

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37	A new route towards nanoporous TiO ₂ as powders or thin films from the thermal treatment of titanium-based hybrid materials. Dalton Transactions, 2012, 41, 292-299.	1.6	9
38	Li _x Co _{0.4} Ni _{0.3} Mn _{0.3} O ₂ electrode materials: Electrochemical and structural studies. Materials Research Bulletin, 2012, 47, 1936-1941.	2.7	18
39	Low-temperature H ₂ sensing in self-assembled organotin thin films. Chemical Communications, 2011, 47, 1464-1466.	2.2	20
40	Reactive magnetron sputtering of Cu ₂ O: Dependence on oxygen pressure and interface formation with indium tin oxide. Journal of Applied Physics, 2011, 109, .	1.1	87
41	Electroless synthesis of platinum and platinum-ruthenium nanotubes and their application in methanol oxidation. Journal of Materials Chemistry, 2011, 21, 6286.	6.7	35
42	Temperature dependent phosphorous oxynitride growth for all-solid-state batteries. Journal of Power Sources, 2011, 196, 6911-6914.	4.0	49
43	Orientation dependent ionization potential of In ₂ O ₃ : a natural source for inhomogeneous barrier formation at electrode interfaces in organic electronics. Journal of Physics Condensed Matter, 2011, 23, 334203.	0.7	36
44	Structural characterisation of textured gold nanowires. International Journal of Nanotechnology, 2011, 8, 855.	0.1	0
45	Influence of stabilizing agents on structure and protection performance of zirconium oxide films. Surface and Coatings Technology, 2010, 204, 2064-2067.	2.2	10
46	Characterization of protective sol-gel coatings on magnesium based on phenyl-triethoxysilane precursor. Thin Solid Films, 2010, 518, 5223-5226.	0.8	7
47	Segmented All-Platinum Nanowires with Controlled Morphology through Manipulation of the Local Electrolyte Distribution in Fluidic Nanochannels during Electrodeposition. Journal of Physical Chemistry C, 2010, 114, 22502-22507.	1.5	20
48	Mechanical alloying of Fe-Si and milling of $\hat{1}$ - and $\hat{2}$ -FeSi ₂ bulk phases. Journal of Alloys and Compounds, 2010, 508, 51-54.	2.8	19
49	Thermal and irradiation induced interdiffusion in Fe ₃ O ₄ /MgO(001) thin film. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1484-1488.	0.6	11
50	Thermal and irradiation induced interdiffusion in magnetite thin films grown on magnesium oxide (001) substrates. Surface Science, 2009, 603, 1175-1181.	0.8	32
51	Structure, composition and crystallinity of epitaxial magnetite thin films. Surface Science, 2008, 602, 2358-2362.	0.8	28
52	Field emission properties of bare and gold-coated nickel nanowires grown in polymer ion-track membranes. Journal of Vacuum Science & Technology B, 2007, 25, 586.	1.3	15
53	Preferred growth orientation of metallic fcc nanowires under direct and alternating electrodeposition conditions. Nanotechnology, 2007, 18, 135709.	1.3	55
54	High-Pressure Multianvil Synthesis and Structure Refinement of Oxygen-Bearing Cubic Zirconium(IV) Nitride. Advanced Materials, 2007, 19, 1869-1873.	11.1	24

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55	Bridged Polystannoxane: A New Route toward Nanoporous Tin Dioxide. Chemistry of Materials, 2006, 18, 6364-6372.	3.2	46
56	Field emission of copper nanowires grown in polymer ion-track membranes. Nuclear Instruments & Methods in Physics Research B, 2006, 245, 337-341.	0.6	36
57	Controlled fabrication of poly- and single-crystalline bismuth nanowires. Nanotechnology, 2005, 16, S246-S249.	1.3	67
58	Interface properties and band alignment of Cu ₂ S/CdS thin film solar cells. Thin Solid Films, 2003, 431-432, 477-482.	0.8	160
59	Characterization of tellurium layers for back contact formation on close to technology treated CdTe surfaces. Journal of Applied Physics, 2003, 94, 3589-3598.	1.1	44
60	Stress change in YBa ₂ Cu ₃ O _{7-δ} close to the superconducting transition. Physical Review B, 2002, 66, .	1.1	7
61	Anisotropic strain in YBa ₂ Cu ₃ O _{7-δ} films analysed by deconvolution of two-dimensional intensity data. Journal of Applied Crystallography, 2001, 34, 13-15.	1.9	1
62	Etched heavy ion tracks in polycarbonate as template for copper nanowires. Nuclear Instruments & Methods in Physics Research B, 2001, 185, 192-197.	0.6	90
63	Detwinning in YBa ₂ Cu ₃ O _{7-δ} films on vicinal SrTiO ₃ (001) due to anisotropic strain at the interface. Physica C: Superconductivity and Its Applications, 2000, 339, 75-78.	0.6	5
64	Controlled modification of interfacial strain and twinning in YBa ₂ Cu ₃ O _{7-δ} films on vicinal SrTiO ₃ (001). Physical Review B, 1998, 57, 3679-3682.	1.1	37
65	CMOS-MEMS resonant RF mixer-filters. , 0, , .		27