

Karsten Fleischer

List of Publications by Year in descending order

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293460

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95
all docs

95
docs citations

95
times ranked

2805
citing authors

#	ARTICLE	IF	CITATIONS
1	Silver nanocolloid generation using dynamic Laser Ablation Synthesis in Solution system and drop-casting. Nano Structures Nano Objects, 2022, 29, 100841.	1.9	14
2	An <i>In Situ</i> Study of Precursor Decomposition via Refractive Index Sensing in p-Type Transparent Copper Chromium Oxide. Chemistry of Materials, 2022, 34, 3020-3027.	3.2	1
3	Additive-free silver nanoparticle ink development using flow-based Laser Ablation Synthesis in Solution and Aerosol Jet printing. Chemical Engineering Journal, 2022, 449, 137817.	6.6	13
4	Nanodomain structure of single crystalline nickel oxide. Scientific Reports, 2021, 11, 3496.	1.6	12
5	Surface Modification and Subsequent Fermi Density Enhancement of Bi(111). Journal of Physical Chemistry C, 2021, 125, 5549-5558.	1.5	7
6	Suppression of the metal-insulator transition in magnetron sputtered Ti2O3 films. Thin Solid Films, 2020, 694, 137642.	0.8	8
7	Low-Cost, High-Performance Spray Pyrolysis-Grown Amorphous Zinc Tin Oxide: The Challenge of a Complex Growth Process. ACS Applied Materials & Interfaces, 2020, 12, 46892-46899.	4.0	14
8	Photonic crystals-based light-trapping approach in solar cells. , 2020, , 337-345.		1
9	Oxidation of Nb(110): atomic structure of the NbO layer and its influence on further oxidation. Scientific Reports, 2020, 10, 3794.	1.6	18
10	Crystallographic Characterisation of Ultra-Thin, or Amorphous Transparent Conducting Oxidesâ€”The Case for Raman Spectroscopy. Materials, 2020, 13, 267.	1.3	9
11	PEDOT:PSS interfaces stabilised using a PEGylated crosslinker yield improved conductivity and biocompatibility. Journal of Materials Chemistry B, 2019, 7, 4811-4820.	2.9	59
12	Importance of Local Bond Order to Conduction in Amorphous, Transparent, Conducting Oxides: The Case of Amorphous ZnSnO ₃ . ACS Applied Materials & Interfaces, 2019, 11, 44399-44405.	4.0	8
13	Growth of ZnO:Al by atomic layer deposition: Deconvoluting the contribution of hydrogen interstitials and crystallographic texture on the conductivity. Thin Solid Films, 2019, 690, 137533.	0.8	3
14	Untangling Cooperative Effects of Pyridinic and Graphitic Nitrogen Sites at Metal-Free N-Doped Carbon Electrocatalysts for the Oxygen Reduction Reaction. Small, 2019, 15, e1902081.	5.2	57
15	A photochemical approach for a fast and self-limited covalent modification of surface supported graphene with photoactive dyes. Nanotechnology, 2018, 29, 275705.	1.3	6
16	Optical Anisotropy of SrTiO ₃ (110) for Different Surface Terminations. Physica Status Solidi (B): Basic Research, 2018, 255, 1700459.	0.7	4
17	Influence of temperature on morphological and optical properties of MoS ₂ layers as grown based on solution processed precursor. Thin Solid Films, 2018, 645, 38-44.	0.8	11
18	Bending stability of Cu _{0.4} CrO ₂ —A transparent p-type conducting oxide for large area flexible electronics. AIP Advances, 2018, 8, 085013.	0.6	8

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19	Magneto-optic Kerr effect in a spin-polarized zero-moment ferrimagnet. Physical Review B, 2018, 98, .	1.1	10
20	Reflectance anisotropy spectroscopy of Fe_3O_4 (110): Anisotropic strain. Physical Review B, 2018, 98, .	1.1	3
21	Nitrogen grain-boundary passivation of In-doped ZnO transparent conducting oxide. Physical Review Materials, 2018, 2, .	0.9	8
22	Increasing the refractive index of materials via nanolamination: a-GZO nanolaminates. Physical Review Materials, 2018, 2, .	0.9	0
23	Ultrathin magnetite in Fe_3O_4 investigating the enhanced thin film magnetic moment. Physical Review B, 2017, 95, .	1.1	8
24	Quantifying the Performance of P-Type Transparent Conducting Oxides by Experimental Methods. Materials, 2017, 10, 1019.	1.3	51
25	Polarization conversion-based molecular sensing using anisotropic plasmonic metasurfaces. Nanoscale, 2016, 8, 10576-10581.	2.8	39
26	Formation of plasmonic nanoparticle arrays "rules and recipes for an ordered growth (Phys. Status Solidi (B): Basic Research, 2016, 253, 198-205.	0.7	0
27	Formation of plasmonic nanoparticle arrays "rules and recipes for an ordered growth. Physica Status Solidi (B): Basic Research, 2016, 253, 198-205.	0.7	1
28	Growth and characterization of epitaxial magnesium ferrite thin films. Thin Solid Films, 2016, 612, 290-295.	0.8	9
29	X-ray spectroscopic studies of the electronic structure of chromium-based p -type transparent conducting oxides. Physical Review B, 2016, 93, .	1.1	15
30	Oxygen vacancy induced surface stabilization: (110) terminated magnetite. Physical Review B, 2016, 94, .	1.1	12
31	Decoupling the refractive index from the electrical properties of transparent conducting oxides via periodic superlattices. Scientific Reports, 2016, 6, 33006.	1.6	12
32	A Rare Case of Mesomorphic Behavior "Molecular Reorientation of Itraconazole Liquid Crystal Induced by a Hydrothermal Treatment. Crystal Growth and Design, 2016, 16, 1329-1336.	1.4	4
33	Synthesis of nanocrystalline Cu deficient CuCrO_2 " a high figure of merit p-type transparent semiconductor. Journal of Materials Chemistry C, 2016, 4, 126-134.	2.7	61
34	Optical characterisation of plasmonic nanostructures on planar substrates using second harmonic generation. Optics Express, 2015, 23, 26486.	1.7	5
35	Conducting mechanism in the epitaxial p -type transparent conducting oxide Cr_2O_3 Raman spectra of p-type transparent semiconducting Cr_2O_3 :Mg. Thin Solid Films, 2015, 594, 245-249.	1.1	62
36	Raman spectra of p-type transparent semiconducting Cr_2O_3 :Mg. Thin Solid Films, 2015, 594, 245-249.	0.8	20

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37	Spray pyrolysis growth of a high figure of merit, nano-crystalline, <i>p</i> -type transparent conducting material at low temperature. Applied Physics Letters, 2015, 107, .	1.5	35
38	Stability and capping of magnetite ultra-thin films. Applied Physics Letters, 2014, 104, 192401.	1.5	12
39	Tuning the crystallographic, morphological, optical and electrical properties of ZnO:Al grown by spray pyrolysis. Thin Solid Films, 2014, 555, 9-12.	0.8	24
40	Reflectance anisotropy spectroscopy of magnetite (110) surfaces. Physical Review B, 2014, 89, .	1.1	7
41	Manipulating and probing the growth of plasmonic nanoparticle arrays using light. Nanoscale, 2013, 5, 4923.	2.8	12
42	General approach to the analysis of plasmonic structures using spectroscopic ellipsometry. Physical Review B, 2013, 87, .	1.1	19
43	Effect of Chemical Precursors On the Optical and Electrical Properties of p-Type Transparent Conducting Cr_2O_3 :(Mg,N). Journal of Physical Chemistry C, 2013, 117, 21901-21907.	1.5	32
44	Surface plasmon on topological insulator/dielectric interface enhanced ZnO ultraviolet photoluminescence. AIP Advances, 2012, 2, .	0.6	12
45	Equilibrium faceting formation in vicinal Al_2O_3 (0001) surface caused by annealing. Surface Science, 2012, 606, 1815-1820.	0.8	21
46	Aluminium doped $\text{Zn}_{1-x}\text{Mg}_x\text{O}$ A transparent conducting oxide with tunable optical and electrical properties. Applied Physics Letters, 2012, 101, .	1.5	21
47	Self-assembled broadband plasmonic nanoparticle arrays for sensing applications. Applied Physics Letters, 2012, 100, .	1.5	28
48	Controlled <i>in situ</i> growth of tunable plasmonic self-assembled nanoparticle arrays. Nanotechnology, 2012, 23, 035606.	1.3	22
49	Improving solar cell efficiency with optically optimised TCO layers. Solar Energy Materials and Solar Cells, 2012, 101, 262-269.	3.0	52
50	An alternative fluorine precursor for the synthesis of SnO_2 :F by spray pyrolysis. Thin Solid Films, 2012, 520, 1856-1861.	0.8	17
51	Magnesium, nitrogen codoped Cr_2O_3 : A p-type transparent conducting oxide. Applied Physics Letters, 2011, 99, .	1.5	82
52	Temperature-dependent magnetic second-harmonic generation from Fe nanostructures grown on vicinal W(110). Physical Review B, 2011, 83, .	1.1	0
53	Probing the out-of-plane optical response of plasmonic nanostructures using spectroscopic ellipsometry. Physical Review B, 2011, 84, .	1.1	25
54	<i>In situ</i> characterization of one-dimensional plasmonic Ag nanocluster arrays. Physical Review B, 2011, 83, .	1.1	21

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55	Magnetic second-harmonic generation from interfaces and nanostructures. Journal of Magnetism and Magnetic Materials, 2010, 322, 1488-1493.	1.0	7
56	Metal-insulator transition in Si(111)-(4x1)/(8x2)-In studied by optical spectroscopy, Physica Status Solidi (B): Basic Research, 2010, 247, 2033-2039.	0.7	11
57	Optical anisotropy of Si(111)-(4x1)/(8x2)-In nanowires calculated from <i>first-principles</i> . Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 133-136.	0.8	1
58	Structure of Si(111)-In Nanowires Determined from the Midinfrared Optical Response. Physical Review Letters, 2009, 102, 226805.	2.9	46
59	Spectroscopic ellipsometry and polarimetry for materials and systems analysis at the nanometer scale: state-of-the-art, potential, and perspectives. Journal of Nanoparticle Research, 2009, 11, 1521-1554.	0.8	180
60	Influence of the Precursors and Chemical Composition of the Solution on the Properties of ZnO Thin Films Grown by Spray Pyrolysis. Journal of Physical Chemistry C, 2009, 113, 21074-21081.	1.5	64
61	Using reflectance anisotropy spectroscopy to characterize capped silver nanostructures grown on silicon. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2556-2560.	0.8	6
62	Optimizing the magnetic contrast in the optical second-harmonic response of capped magnetic nanostructures grown on vicinal surfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2645-2648.	0.8	1
63	Optical second-harmonic generation studies of Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ag and Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ag grown on vicinal Si(111). Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2649-2652.	0.8	4
64	Determining magnetization curves using optical second-harmonic generation. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2653-2656.	0.8	1
65	Reflectance anisotropy studies of $\sqrt{5}\times\sqrt{2}$ -Au structures grown on Si(111) surfaces with different step formations. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2569-2572.	0.8	3
66	Magnetic second-harmonic generation from the terraces and steps of aligned magnetic nanostructures grown on low symmetry interfaces. Journal of Physics Condensed Matter, 2008, 20, 265002.	0.7	7
67	Optical reflectance anisotropy of buried Fe nanostructures on vicinal W(110). Journal of Physics Condensed Matter, 2007, 19, 266003.	0.7	12
68	Extracting the hysteresis loops of magnetic interfaces from optical second-harmonic intensity measurements. Journal of Physics Condensed Matter, 2007, 19, 396002.	0.7	8
69	Surface phonons of the $\sqrt{3}\times\sqrt{3}$ -Ag. $\text{Si}(\sqrt{3}\times\sqrt{3})\text{Ag}$ and $\text{Si}(\sqrt{3}\times\sqrt{3})\text{Ag}$ grown on vicinal Si(111). Physical Review B, 2007, 76, .	1.2	28
70	Effect of light on the reflectance anisotropy and chain-oxygen related Raman signal in untwinned, underdoped crystals of YBa ₂ Cu ₃ O _{7-δ} . Journal of Physics and Chemistry of Solids, 2006, 67, 340-343.	1.9	13
71	Optical and electronic properties of Ag nanodots on Si(111). Journal of Physics Condensed Matter, 2006, 18, 6979-6986.	0.7	11
72	Free-electron response in reflectance anisotropy spectra. Physical Review B, 2006, 74, .	1.1	8

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73	Optical properties of indium nanowires - an adsorption study. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 2655-2663.	0.7	6
74	Optical response of Ag-induced reconstructions on vicinal Si(111). <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 3017-3021.	0.7	3
75	Electronic structure and reflectance anisotropy spectrum of InAs(110). <i>Physical Review B</i> , 2005, 71, .	1.1	4
76	Structural analysis by reflectance anisotropy spectroscopy: As and Sb on GaAs(110). <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4367-S4374.	0.7	4
77	Optical anisotropy of Cs nanostructures on III-V(110) surfaces. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S4353-S4365.	0.7	3
78	Photoinduced chain-oxygen ordering in detwinned YBa ₂ Cu ₃ O _{6.7} single crystals studied by reflectance-anisotropy spectroscopy. <i>Physical Review B</i> , 2004, 69, .	1.1	13
79	Atomic indium nanowires on Si(111): the (4 Å ⁻¹) ² (8 Å ⁻¹) phase transition studied with reflectance anisotropy spectroscopy. <i>Applied Surface Science</i> , 2004, 234, 302-306.	3.1	15
80	In-situ Raman Spectroscopy on III-V semiconductors at high temperature in MOVPE. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003, 0, 2949-2955.	0.8	4
81	Hydrogen Local Vibrational Modes in Zinc Oxide. <i>Physical Review Letters</i> , 2003, 90, 197402.	2.9	114
82	Phonon and polarized reflectance spectra from Si(111)-(4 Å ⁻¹) ² In: Evidence for a charge-density-wave driven phase transition. <i>Physical Review B</i> , 2003, 67, .	1.1	48
83	Micro-Raman studies of vertical-cavity surface-emitting lasers with Al _x O _y /GaAs distributed Bragg reflectors. <i>Applied Physics Letters</i> , 2002, 81, 2544-2546.	1.5	30
84	Superconductivity in Sn films on InSb() taking account of the film morphology and structure. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 377, 89-95.	0.6	5
85	GaAs(001): Surface Structure and Optical Properties. <i>Physica Status Solidi A</i> , 2001, 188, 1401-1409.	1.7	53
86	Reflectance Anisotropy Spectroscopy of Si(111)-(4 Å ⁻¹) ² In. <i>Physica Status Solidi A</i> , 2001, 188, 1411-1416.	1.7	15
87	Atomic structure and optical anisotropy of III-V(001) surfaces. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2001, 19, 1756.	1.6	31
88	Influence of Sn on the optical anisotropy of single-domain Si(001). <i>Physical Review B</i> , 2001, 63, .	1.1	5
89	The electrical and structural properties of granular superconducting Sn on InSb(110). <i>Physica B: Condensed Matter</i> , 2000, 284-288, 1121-1122.	1.3	1
90	Direct experimental evidence for the role of oxygen in the luminescent properties of GaN. <i>Physical Review B</i> , 1999, 59, 1575-1578.	1.1	90

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91	Depth profiling of GaN by cathodoluminescence microanalysis. Applied Physics Letters, 1999, 74, 1114-1116.	1.5	73
92	Electron Beam Induced Impurity Electro-Migration in Unintentionally Doped GaN. MRS Internet Journal of Nitride Semiconductor Research, 1999, 4, 257-262.	1.0	1