

# Sigrid Bernstorff

## List of Publications by Year in descending order

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304  
papers

6,092  
citations

109321

35  
h-index

102487

66  
g-index

306  
all docs

306  
docs citations

306  
times ranked

7430  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fibrillar Structure and Mechanical Properties of Collagen. <i>Journal of Structural Biology</i> , 1998, 122, 119-122.	2.8	539
2	Viscoelastic properties of collagen: synchrotron radiation investigations and structural model. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2002, 357, 191-197.	4.0	434
3	First performance assessment of the small-angle X-ray scattering beamline at ELETTRA. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 506-508.	2.4	244
4	The Importance of Protein-Protein Interactions on the pH-Induced Conformational Changes of Bovine Serum Albumin: A Small-Angle X-Ray Scattering Study. <i>Biophysical Journal</i> , 2010, 98, 147-157.	0.5	226
5	Characteristics of mineral particles in the human bone/cartilage interface. <i>Journal of Structural Biology</i> , 2003, 141, 208-217.	2.8	153
6	Tunable Materials from Hydrogen-Bonded Pseudo Block Copolymers. <i>Advanced Materials</i> , 2005, 17, 2824-2828.	21.0	150
7	High-flux beamline for small-angle X-ray scattering at ELETTRA. <i>Review of Scientific Instruments</i> , 1995, 66, 1624-1626.	1.3	134
8	Performance and First Results of the ELETTRA High-Flux Beamline for Small-Angle X-ray Scattering. <i>Journal of Applied Crystallography</i> , 1997, 30, 872-876.	4.5	124
9	Photoelectron recapture through post-collision interaction. <i>Physical Review A</i> , 1988, 38, 3808-3811.	2.5	99
10	A Closer Look into Two-Step Perovskite Conversion with X-ray Scattering. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1265-1269.	4.6	96
11	Vacancy production during plastic deformation in copper determined by in situ X-ray diffraction. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 462, 398-401.	5.6	83
12	Synchrotron Diffraction Study of Deformation Mechanisms in Mineralized Tendon. <i>Physical Review Letters</i> , 2004, 93, 158101.	7.8	78
13	Ionic Liquids as Post-Treatment Agents for Simultaneous Improvement of Seebeck Coefficient and Electrical Conductivity in PEDOT:PSS Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 8060-8071.	8.0	67
14	Structural and Chemical Effects of Plasma Treatment on Close-Packed Colloidal Nanoparticle Layers. <i>Advanced Functional Materials</i> , 2008, 18, 2398-2410.	14.9	62
15	New evidence for gel-liquid crystalline phase coexistence in the ripple phase of phosphatidylcholines. <i>European Biophysics Journal</i> , 2000, 29, 125-133.	2.2	61
16	Structural, dynamic and mechanical properties of POPC at low cholesterol concentration studied in pressure/temperature space. <i>European Biophysics Journal</i> , 2003, 31, 575-585.	2.2	61
17	Grazing-incidence small-angle X-ray scattering: application to the study of quantum dot lattices. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2012, 68, 124-138.	0.3	61
18	In-Operando Study of the Effects of Solvent Additives on the Stability of Organic Solar Cells Based on PTB7-Th:PC <sub>71</sub> BM. <i>ACS Energy Letters</i> , 2019, 4, 464-470.	17.4	60

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19	A second-order phase-transformation of the dislocation structure during plastic deformation determined by in situ synchrotron X-ray diffraction. <i>Acta Materialia</i> , 2005, 53, 315-322.	7.9	58
20	Formation of three-dimensional quantum-dot superlattices in amorphous systems: Experiments and Monte Carlo simulations. <i>Physical Review B</i> , 2009, 79, .	3.2	57
21	Scanning X-ray diffraction peak profile analysis in deformed Cu-polycrystals by synchrotron radiation This work is dedicated to Professor Dr Guenther Schoeck on the occasion of his 70th birthday.1. <i>Acta Materialia</i> , 1999, 47, 1053-1061.	7.9	54
22	In operando morphology investigation of inverted bulk heterojunction organic solar cells by GISAXS. <i>Journal of Materials Chemistry A</i> , 2015, 3, 8324-8331.	10.3	54
23	A flexible high-energy toroidal grating monochromator at Bessy. <i>Review of Scientific Instruments</i> , 1989, 60, 2097-2100.	1.3	51
24	Mixed Silica Titania Materials Prepared from a Single-Source Sol-Gel Precursor: A Time-Resolved SAXS Study of the Gelation, Aging, Supercritical Drying, and Calcination Processes. <i>Chemistry of Materials</i> , 2005, 17, 3146-3153.	6.7	48
25	High-Throughput Asymmetric Double-Crystal Monochromator of the SAXS Beamline at ELETTRA. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 1215-1221.	2.4	45
26	Structure of self-assembled liposome-DNA-metal complexes. <i>Physical Review E</i> , 2003, 67, 011904.	2.1	43
27	High-pressure instrument for small- and wide-angle x-ray scattering. II. Time-resolved experiments. <i>Review of Scientific Instruments</i> , 1999, 70, 1540-1545.	1.3	42
28	X-ray line profile analysis – An ideal tool to quantify structural parameters of nanomaterials. <i>Jom</i> , 2011, 63, 61-70.	1.9	42
29	Self-Assembly of the Cephalopod Protein Reflectin. <i>Advanced Materials</i> , 2016, 28, 8405-8412.	21.0	41
30	Response of GaN to energetic ion irradiation: conditions for ion track formation. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 325304.	2.8	40
31	A Low Temperature Route toward Hierarchically Structured Titania Films for Thin Hybrid Solar Cells. <i>Advanced Functional Materials</i> , 2016, 26, 7084-7093.	14.9	38
32	Investigation of bone and cartilage by synchrotron scanning-SAXS and -WAXD with micrometer spatial resolution. <i>Journal of Applied Crystallography</i> , 2000, 33, 820-823.	4.5	37
33	Digital mammography with synchrotron radiation. <i>Review of Scientific Instruments</i> , 1995, 66, 1325-1328.	1.3	36
34	Sputter-deposited amorphous-like tungsten. <i>Surface and Coatings Technology</i> , 2004, 180-181, 66-70.	4.8	36
35	Effect of Blend Composition and Additives on the Morphology of PCPDTBT:PCBM Thin Films for Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 21347-21355.	8.0	36
36	Depth profiling of marker layers using x-ray waveguide structures. <i>Physical Review B</i> , 2005, 72, .	3.2	35

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37	The influence of deposition temperature on the correlation of Ge quantum dot positions in amorphous silica matrix. <i>Nanotechnology</i> , 2009, 20, 085612.	2.6	35
38	Effect of annealing temperature on photoluminescence and resistive switching characteristics of ZnO/Al <sub>2</sub> O <sub>3</sub> multilayer nanostructures. <i>Journal of Alloys and Compounds</i> , 2015, 619, 248-252.	5.5	34
39	Vacancy concentrations determined from the diffuse background scattering of X-rays in plastically deformed copper. <i>International Journal of Materials Research</i> , 2005, 96, 578-583.	0.8	33
40	Optical and structural characterization of silver islands films on glass substrates. <i>Vacuum</i> , 2009, 84, 188-192.	3.5	33
41	Structure and morphology of magnetron sputtered W films studied by x-ray methods. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 095304.	2.8	33
42	Recent advances in vacuum sciences and applications. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 153001.	2.8	33
43	Evolution of intermediate excitons in fluid argon and krypton. <i>Physical Review B</i> , 1987, 35, 6270-6280.	3.2	32
44	Preparation and characterization of melt intercalated poly(ethylene oxide)/lithium montmorillonite nanocomposites. <i>Thermochimica Acta</i> , 2014, 579, 86-92.	2.7	32
45	In Operando GISAXS and GIWAXS Stability Study of Organic Solar Cells Based on PffBT4Tâ€œOD:PC<sub>71</sub>BM with and without Solvent Additive. <i>Advanced Science</i> , 2020, 7, 2001117.	11.2	32
46	Extrinsic photoconductivity in xenon-doped fluid argon and krypton. <i>Chemical Physics</i> , 1984, 86, 189-198.	1.9	31
47	X-ray Kinematography of Temperature-Jump Relaxation Probes the Elastic Properties of Fluid Bilayersâ€œ. <i>Langmuir</i> , 2000, 16, 8994-9001.	3.5	31
48	Evidence of dislocations in melt-crystallised and plastically deformed polypropylene. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 387-389, 1018-1022.	5.6	28
49	Coreâ€œelectron excitations and the electronic decay of coreâ€œboundâ€œstate transitions in condensed azabenzenes. <i>Journal of Chemical Physics</i> , 1989, 91, 20-28.	3.0	27
50	Ge quantum dot lattices in Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	27
51	Evolution of the surface plasmon resonance of Au:TiO <sub>2</sub> nanocomposite thin films with annealing temperature. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	1.9	27
52	Codependence between Crystalline and Photovoltage Evolutions in P3HT:PCBM Solar Cells Probed with in-Operando GIWAXS. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 3282-3287.	8.0	27
53	Semiconductor nanoparticles for quantum devices. <i>Nanotechnology</i> , 1998, 9, 158-161.	2.6	26
54	Self-assembling of Ge quantum dots in an alumina matrix. <i>Physical Review B</i> , 2010, 82, .	3.2	26

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55	A conceptual model for ray tracing calculations with mosaic crystals. Review of Scientific Instruments, 1992, 63, 932-935.	1.3	25
56	Small-angle X-ray scattering from micellar solutions of gemini surfactants. Chemical Physics Letters, 2000, 329, 336-340.	2.6	25
57	Determination of lamella thickness distributions in isotactic polypropylene by X-ray line profile analysis. Polymer, 2010, 51, 4195-4199.	3.8	25
58	Collagen fibrils are differently organized in weight-bearing and not-weight-bearing regions of pig articular cartilage. The Journal of Experimental Zoology, 2000, 287, 346-352.	1.4	24
59	Changes in myosin S1 orientation and force induced by a temperature increase. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5384-5389.	7.1	24
60	Formation of long-range ordered quantum dots arrays in amorphous matrix by ion beam irradiation. Applied Physics Letters, 2009, 95, 063104.	3.3	24
61	Optical and structural properties of silver nanoparticles in glass matrix formed by thermal annealing of field assisted film dissolution. Optical Materials, 2010, 32, 510-514.	3.6	24
62	GISAXS Analysis of the In-Depth Morphology of Thick PS- <i>b</i> -PMMA Films. ACS Applied Materials & Interfaces, 2017, 9, 11054-11063.	8.0	24
63	Phase-separation kinetics of a multicomponent alloy. Physical Review B, 1999, 60, 822-830.	3.2	23
64	Time-resolved small-angle X-ray scattering study of void fraction evolution in high-density polyethylene during stress unloading and strain recovery. Polymer International, 2015, 64, 1513-1521.	3.1	23
65	In Situ Study of Degradation in P3HT/Titania-Based Solid-State Dye-Sensitized Solar Cells. ACS Energy Letters, 2017, 2, 991-997.	17.4	23
66	Dislocation Movement Induced by Molecular Relaxations in Isotactic Polypropylene. Macromolecules, 2017, 50, 6362-6368.	4.8	23
67	Ge/Si core/shell quantum dots in alumina: tuning the optical absorption by the core and shell size. Nanophotonics, 2017, 6, 1055-1062.	6.0	22
68	Autoionization versus photoionization of molecular adsorbates: CO <sub>2</sub> physisorbed on Ni(110). Physical Review B, 1990, 41, 10510-10522.	3.2	21
69	Experimental determination of band gaps in rare gas solids. Optics Communications, 1986, 58, 181-186.	2.1	20
70	The macromolecular crystallography beamline at ELETTRA. Review of Scientific Instruments, 1995, 66, 1661-1664.	1.3	20
71	The role of dislocations in $\hat{\gamma}$ -iPP under plastic deformation investigated by X-ray line profile analysis. Mechanics of Materials, 2013, 67, 126-132.	3.2	20
72	Self-Assembly of Cellulose in Super-Cooled Ionic Liquid under the Impact of Decelerated Antisolvent Infusion: An Approach toward Anisotropic Gels and Aerogels. Biomacromolecules, 2018, 19, 4411-4422.	5.4	20

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73	Electronic Properties and Orientation Studies of Poly(3-Alkylselenophene Electrochemically Deposited on Pt As Observed by NEXAFS. <i>Journal of the Electrochemical Society</i> , 1990, 137, 1827-1832.	2.9	19
74	SAXS study of the influence of ethanol on the microstructure of polyurethane-based membrane. <i>Journal of Membrane Science</i> , 2000, 170, 275-279.	8.2	19
75	Frequency-Dependent Distortion of Meridional Intensity Changes during Sinusoidal Length Oscillations of Activated Skeletal Muscle. <i>Biophysical Journal</i> , 2001, 80, 2809-2822.	0.5	19
76	Measuring devices at BESSY for stored beam currents ranging from 0.8 pA to 1 A. <i>Review of Scientific Instruments</i> , 1989, 60, 1752-1755.	1.3	18
77	Low-temperature fabrication of layered self-organized Ge clusters by RF-sputtering. <i>Nanoscale Research Letters</i> , 2011, 6, 341.	5.7	18
78	Formation of swift heavy ion tracks on a rutile TiO <sub>2</sub> (001) surface. <i>Journal of Applied Crystallography</i> , 2016, 49, 1704-1712.	4.5	18
79	A Molecular Biophysical Approach to Diclofenac Topical Gastrointestinal Damage. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3411.	4.1	18
80	Grazing-incidence small-angle and wide-angle scattering of synchrotron radiation on nanosized CeO <sub>2</sub> thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1999, 58, 263-269.	3.5	17
81	Microstructural Parameters in Large Strain Deformed Ni Polycrystals as Investigated by Synchrotron Radiation. <i>Physica Status Solidi A</i> , 1999, 175, 501-511.	1.7	17
82	Structure of CdS/arachidic acid composite LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 59-66.	4.7	17
83	Counterion condensation on charged micelles in an aqueous electrolyte solution as studied with combined small-angle neutron scattering and small-angle x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 11399-11410.	1.8	17
84	Structural investigation of alumina silica mixed oxide gels prepared from organically modified precursors. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1635-1644.	3.1	17
85	Study of amorphous nanocrystalline thin silicon films by grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2007, 40, s373-s376.	4.5	17
86	Structural and charge trapping properties of two bilayer (Ge+SiO <sub>2</sub> )/SiO <sub>2</sub> films deposited on rippled substrate. <i>Applied Physics Letters</i> , 2010, 97, 163117.	3.3	17
87	Electro-chemical deposition of zinc oxide nanostructures by using two electrodes. <i>AIP Advances</i> , 2011, 1, .	1.3	17
88	The influence of thermal annealing on the structural, optical and electrical properties of AZO thin films deposited by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2017, 321, 292-299.	4.8	17
89	Nanopatterning surfaces by grazing incidence swift heavy ion irradiation. <i>Applied Surface Science</i> , 2021, 541, 148467.	6.1	17
90	Determination of electron currents below 1 nA in the storage ring BESSY by measurement of the synchrotron radiation of single electrons. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 268, 262-269.	1.6	16

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91	Molecular packing in cadmium and zinc arachidate LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 75-81.	4.7	16
92	Small-angle X-ray scattering and neutron reflectivity studies of Langmuir-Blodgett films of copper tetra-tert-butyl-azaporphyrines. <i>Journal of Applied Crystallography</i> , 2003, 36, 758-762.	4.5	16
93	SAXS/DSC Study of Polymer Electrolyte for Zn Rechargeable Nanostructured Galvanic Cells. <i>Journal of the Electrochemical Society</i> , 2007, 154, A554.	2.9	16
94	Met-myoglobin Association in Dilute Solution during Pressure-Induced Denaturation: an Analysis at pH 4.5 by High-Pressure Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3822-3830.	2.6	16
95	Design of quantum dot lattices in amorphous matrices by ion beam irradiation. <i>Physical Review B</i> , 2011, 84, .	3.2	16
96	Tuning the growth properties of Ge quantum dot lattices in amorphous oxides by matrix type. <i>Journal of Applied Crystallography</i> , 2013, 46, 1490-1500.	4.5	16
97	Production of three-dimensional quantum dot lattice of Ge/Si core-shell quantum dots and Si/Ge layers in an alumina glass matrix. <i>Nanotechnology</i> , 2015, 26, 065602.	2.6	16
98	<i>In Situ</i> Observation of Morphological and Oxidation Level Degradation Processes within Ionic Liquid Post-treated PEDOT:PSS Thin Films upon Operation at High Temperatures. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 30802-30811.	8.0	16
99	Investigation on precipitation in Zircaloy-2 fuel cladding tube. <i>Journal of Alloys and Compounds</i> , 2000, 308, 250-258.	5.5	15
100	Effects of the Number of Actin-Bound S1 and Axial Force on X-Ray Patterns of Intact Skeletal Muscle. <i>Biophysical Journal</i> , 2006, 90, 975-984.	0.5	15
101	Synthesis and characterization of orthorhombic, 2d-centered rectangular and lamellar iron oxide doped silica films. <i>Journal of Materials Chemistry</i> , 2006, 16, 4443-4453.	6.7	15
102	Optical and structural properties of Au-Ag islands films for plasmonic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 103, 745-748.	2.3	15
103	Conditions for formation of germanium quantum dots in amorphous matrices by MeV ions: Comparison with standard thermal annealing. <i>Physical Review B</i> , 2012, 86, .	3.2	15
104	Timescales of self-healing in human bone tissue and polymeric ionic liquids. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014, 3, 123-130.	0.9	15
105	Prediction of paclitaxel pharmacokinetic based on in vitro studies: Interaction with membrane models and human serum albumin. <i>International Journal of Pharmaceutics</i> , 2020, 580, 119222.	5.2	15
106	Small angle scattering of synchrotron radiation on nanosized CeO <sub>2</sub> and CeO <sub>2</sub> -SnO <sub>2</sub> thin films obtained by sol-gel dip-coating method. <i>Scripta Materialia</i> , 1999, 11, 909-915.	0.5	14
107	Nanocrystallisation of amorphous alloys: comparison between furnace and current annealing. <i>Intermetallics</i> , 2000, 8, 287-291.	3.9	14
108	Molecular packing in CdS containing conducting polymer composite LB multilayers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 198-200, 67-74.	4.7	14

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109	Correlated stacks of CdSe/ZnS quantum dots. Applied Physics Letters, 2004, 84, 4367-4369.	3.3	14
110	In and Ex Situ Studies of the Formation of Layered Microspherical Hydrozincite as Precursor for ZnO. Chemistry - A European Journal, 2010, 16, 11481-11488.	3.3	14
111	Application of GISAXS in the Investigation of Three-Dimensional Lattices of Nanostructures. Crystals, 2019, 9, 479.	2.2	14
112	Preparation of non-oxidized Ge quantum dot lattices in amorphous Al <sub>2</sub> O <sub>3</sub> , Si <sub>3</sub> N <sub>4</sub> and SiC matrices. Nanotechnology, 2019, 30, 335601.	2.6	14
113	Investigation of the Microstructural Evolution During Large Strain Cold Working of Metals by Means of Synchrotron Radiation – A Comparative Overview. Journal of Engineering Materials and Technology, Transactions of the ASME, 2002, 124, 41-47.	1.4	13
114	The nano-structural properties of hydrogenated a-Si and Si <sup>13</sup> C thin films alloys by GISAXS and vibrational spectroscopy. Applied Surface Science, 2006, 252, 5598-5601.	6.1	13
115	Formation of void lattice after annealing of Ge quantum dot lattice in alumina matrix. Applied Physics Letters, 2010, 97, .	3.3	13
116	Dynamic screening effects observed in the deexcitation of core electron excited states in molecules. Journal of Electron Spectroscopy and Related Phenomena, 1990, 51, 373-382.	1.7	12
117	Time-resolved small angle scattering: kinetic and structural data from proteins in solution. Journal of Applied Crystallography, 2000, 33, 548-551.	4.5	12
118	Depth-influenced structure through permeating polymer membrane using SAXS synchrotron method. Journal of Membrane Science, 2001, 186, 1-8.	8.2	12
119	The influence of substrate morphology on the growth of thin silicon films: A GISAXS study. Thin Solid Films, 2007, 515, 5615-5619.	1.8	12
120	Ultra-thin high-quality silicon nitride films on Si(111). Europhysics Letters, 2011, 94, 16003.	2.0	12
121	Structure – Function Correlations in Sputter Deposited Gold/Fluorocarbon Multilayers for Tuning Optical Response. Nanomaterials, 2019, 9, 1249.	4.1	12
122	Insight into the nanostructure of anisotropic cellulose aerogels upon compression. Soft Matter, 2019, 15, 8372-8380.	2.7	12
123	Early stages of bubble formation in helium-implanted (100) silicon. Physica Status Solidi A, 2003, 198, 29-37.	1.7	11
124	Direct ion beam synthesis of II – VI nanocrystals. Nuclear Instruments & Methods in Physics Research B, 2004, 216, 407-413.	1.4	11
125	Development of a two-dimensional virtual-pixel X-ray imaging detector for time-resolved structure research. Journal of Synchrotron Radiation, 2004, 11, 177-186.	2.4	11
126	Ion beam synthesis and characterization of Ge nanoparticles in SiO <sub>2</sub> . Nuclear Instruments & Methods in Physics Research B, 2006, 249, 843-846.	1.4	11

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127	Formation of Ge-nanocrystals in SiO <sub>2</sub> matrix by magnetron sputtering and post-deposition thermal treatment. <i>Superlattices and Microstructures</i> , 2008, 44, 323-330.	3.1	11
128	The growth mechanism of zinc oxide and hydrozincite: a study using electron microscopies and in situ SAXS. <i>CrystEngComm</i> , 2012, 14, 3080.	2.6	11
129	Structure, self-assembly, and properties of a truncated reflectin variant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 32891-32901.	7.1	11
130	Nanostructured CeO <sub>2</sub> thin films: A SAXS study of the interface between grains and pores. <i>Thin Solid Films</i> , 2007, 515, 5624-5626.	1.8	10
131	Grazing incidence X-ray study of Ge-nanoparticle formation in (Ge:SiO <sub>2</sub> )/SiO <sub>2</sub> multilayers. <i>Thin Solid Films</i> , 2009, 517, 1899-1903.	1.8	10
132	Pulsed laser ablation of GaAs using nano pulse length. <i>Applied Surface Science</i> , 2011, 257, 5358-5361.	6.1	10
133	Determination of ion track radii in amorphous matrices via formation of nano-clusters by ion-beam irradiation. <i>Applied Physics Letters</i> , 2012, 101, 103112.	3.3	10
134	Structural and electrical studies of ultrathin layers with Si <sub>0.7</sub> Ge <sub>0.3</sub> nanocrystals confined in a SiGe/SiO <sub>2</sub> superlattice. <i>Journal of Applied Physics</i> , 2012, 111, 104323.	2.5	10
135	Pore size control of block copolymer-templated sol-gel-synthesized titania films deposited via spray coating. <i>Journal of Sol-Gel Science and Technology</i> , 2017, 81, 346-354.	2.4	10
136	Ge Quantum Dots Coated with Metal Shells (Al, Ta, and Ti) Embedded in Alumina Thin Films for Solar Energy Conversion. <i>ACS Applied Nano Materials</i> , 2020, 3, 8640-8650.	5.0	10
137	TIME-RESOLVED SAXS/WAXS STUDY OF PHASE BEHAVIOR AND CRYSTALLIZATION IN POLYMER BLENDS. <i>Journal of Macromolecular Science - Physics</i> , 2002, 41, 1023-1032.	1.0	9
138	Ordering mechanism of stacked CdSe/ZnS quantum dots: A combined reciprocal-space and real-space approach. <i>Physical Review B</i> , 2005, 72, .	3.2	9
139	Grazing-incidence small-angle X-ray scattering from alkaline phosphatase immobilized in atmospheric plasmapolymer coatings. <i>Applied Surface Science</i> , 2008, 254, 5557-5563.	6.1	9
140	Synchrotron X-ray line-profile analysis experiments for the in-situ microstructural characterisation of SPD nanometals during tensile deformation. <i>International Journal of Materials Research</i> , 2009, 100, 770-774.	0.3	9
141	Growth of spatially ordered Ge nanoclusters in an amorphous matrix on rippled substrates. <i>Physical Review B</i> , 2010, 82, .	3.2	9
142	Effect of bi-layer ratio in ZnO/Al <sub>2</sub> O <sub>3</sub> multilayers on microstructure and functional properties of ZnO nanocrystals embedded in Al <sub>2</sub> O <sub>3</sub> matrix. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 283-289.	2.3	9
143	Mechanistic details of the formation and growth of nanoscale voids in Ge under extreme conditions within an ion track. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 225302.	2.8	9
144	Tailoring Morphology Compatibility and Device Stability by Adding PBDTPD-COOH as Third Component to Fullerene-Based Polymer Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 2604-2613.	5.1	9

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145	Ge quantum dot lattices in alumina prepared by nitrogen assisted deposition: Structure and photoelectric conversion efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2020, 218, 110722.	6.2	9
146	Fast PC-based data acquisition system for gas-filled position sensitive detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1997, 392, 384-391.	1.6	8
147	Grazing incidence small angle X-ray scattering investigation of tungsten-carbon films produced by reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2002, 151-152, 218-221.	4.8	8
148	Analysis of the nano-structural properties of thin film silicon-carbon alloys. <i>Vacuum</i> , 2005, 80, 98-101.	3.5	8
149	A GISAXS study of SiO/SiO <sub>2</sub> superlattice. <i>Thin Solid Films</i> , 2006, 511-512, 463-467.	1.8	8
150	Growth of Ge islands on Si substrates. <i>Thin Solid Films</i> , 2006, 515, 752-755.	1.8	8
151	Microhardness of quenched and annealed isotactic polypropylene. <i>Journal of Materials Science</i> , 2007, 42, 5318-5326.	3.7	8
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