

Oskar Paris

List of Publications by Year in descending order

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134
papers

7,220
citations

46984

47
h-index

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136
docs citations

136
times ranked

8774
citing authors

#	ARTICLE	IF	CITATIONS
1	A reconsideration of the relationship between the crystallite size L_a of carbons determined by X-ray diffraction and Raman spectroscopy. <i>Carbon</i> , 2006, 44, 3239-3246.	5.4	452
2	Mapping amorphous calcium phosphate transformation into crystalline mineral from the cell to the bone in zebrafish fin rays. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 6316-6321.	3.3	389
3	Decomposition and carbonisation of wood biopolymers—a microstructural study of softwood pyrolysis. <i>Carbon</i> , 2005, 43, 53-66.	5.4	279
4	A customizable software for fast reduction and analysis of large X-ray scattering data sets: applications of the new <i>DPDAK</i> package to small-angle X-ray scattering and grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2014, 47, 1797-1803.	1.9	244
5	Continuous Structural Evolution of Calcium Carbonate Particles: A Unifying Model of Copolymer-Mediated Crystallization. <i>Journal of the American Chemical Society</i> , 2007, 129, 3729-3736.	6.6	240
6	Bone mineralization in an osteogenesis imperfecta mouse model studied by small-angle x-ray scattering. <i>Journal of Clinical Investigation</i> , 1996, 97, 396-402.	3.9	203
7	Influence of coherency stress on microstructural evolution in model Ni-Al-Mo alloys. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 1007-1022.	1.9	168
8	Infrared Emitting and Photoconducting Colloidal Silver Chalcogenide Nanocrystal Quantum Dots from a Silylamide-Promoted Synthesis. <i>ACS Nano</i> , 2011, 5, 3758-3765.	7.3	164
9	The grinding tip of the sea urchin tooth exhibits exquisite control over calcite crystal orientation and Mg distribution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 6048-6053.	3.3	161
10	A new experimental station for simultaneous X-ray microbeam scanning for small- and wide-angle scattering and fluorescence at BESSY II. <i>Journal of Applied Crystallography</i> , 2006, 40, s466-s470.	1.9	148
11	Microtexture and Chitin/Calcite Orientation Relationship in the Mineralized Exoskeleton of the American Lobster. <i>Advanced Functional Materials</i> , 2008, 18, 3307-3314.	7.8	145
12	Tracking the structural arrangement of ions in carbon supercapacitor nanopores using in situ small-angle X-ray scattering. <i>Energy and Environmental Science</i> , 2015, 8, 1725-1735.	15.6	126
13	Imaging of the helical arrangement of cellulose fibrils in wood by synchrotron X-ray microdiffraction. <i>Journal of Applied Crystallography</i> , 1999, 32, 1127-1133.	1.9	123
14	Novel Insights into Nanopore Deformation Caused by Capillary Condensation. <i>Physical Review Letters</i> , 2008, 101, 086104.	2.9	110
15	Insights into the chemical composition of <i>Equisetum hyemale</i> by high resolution Raman imaging. <i>Planta</i> , 2008, 227, 969-980.	1.6	109
16	Strontium is incorporated into mineral crystals only in newly formed bone during strontium ranelate treatment. <i>Journal of Bone and Mineral Research</i> , 2010, 25, 968-975.	3.1	108
17	On the mineral in collagen of human crown dentine. <i>Biomaterials</i> , 2010, 31, 5479-5490.	5.7	106
18	Nanoporous activated carbon cloth as a versatile material for hydrogen adsorption, selective gas separation and electrochemical energy storage. <i>Nano Energy</i> , 2017, 40, 49-64.	8.2	101

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19	Physisorbed films in periodic mesoporous silica studied by in situ synchrotron small-angle diffraction. <i>Physical Review B</i> , 2006, 73, .	1.1	100
20	Early stages of precipitate rafting in a single crystal NiAlMo model alloy investigated by small-angle X-ray scattering and TEM. <i>Acta Materialia</i> , 1997, 45, 1085-1097.	3.8	98
21	Glucan, water dikinase phosphorylates crystalline maltodextrins and thereby initiates solubilization. <i>Plant Journal</i> , 2008, 55, 323-334.	2.8	94
22	Capillarity-driven deformation of ordered nanoporous silica. <i>Applied Physics Letters</i> , 2009, 95, 083121.	1.5	89
23	Texture of PAN- and pitch-based carbon fibers. <i>Carbon</i> , 2002, 40, 551-555.	5.4	86
24	Salt concentration and charging velocity determine ion charge storage mechanism in nanoporous supercapacitors. <i>Nature Communications</i> , 2018, 9, 4145.	5.8	85
25	Confinement-induced structural changes of water studied by Raman scattering. <i>Physical Review B</i> , 2011, 84, .	1.1	80
26	Biomimetics and Biotemplating of Natural Materials. <i>MRS Bulletin</i> , 2010, 35, 219-225.	1.7	79
27	Oriented aggregation of calcium silicate hydrate platelets by the use of comb-like copolymers. <i>Soft Matter</i> , 2013, 9, 4864.	1.2	78
28	Stiffness gradients in vascular bundles of the palm <i>Washingtonia robusta</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 2221-2229.	1.2	77
29	Density minimum of confined water at low temperatures: a combined study by small-angle scattering of X-rays and neutrons. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 3852.	1.3	76
30	On the Stability of Amorphous Minerals in Lobster Cuticle. <i>Advanced Materials</i> , 2009, 21, 4011-4015.	11.1	74
31	Pore Structure and Fluid Sorption in Ordered Mesoporous Silica. I. Experimental Study by in situ Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15201-15210.	1.5	74
32	Elastic moduli of nanocrystallites in carbon fibers measured by in-situ X-ray microbeam diffraction. <i>Carbon</i> , 2003, 41, 563-570.	5.4	72
33	Adsorption of n-Pentane on Mesoporous Silica and Adsorbent Deformation. <i>Langmuir</i> , 2013, 29, 8601-8608.	1.6	71
34	From diffraction to imaging: New avenues in studying hierarchical biological tissues with x-ray microbeams (Review). <i>Biointerphases</i> , 2008, 3, FB16-FB26.	0.6	70
35	Direct Observation of Nanocrystallite Buckling in Carbon Fibers under Bending Load. <i>Physical Review Letters</i> , 2005, 95, 225501.	2.9	69
36	Effect of particle size and Debye length on order parameters of colloidal silica suspensions under confinement. <i>Soft Matter</i> , 2011, 7, 10899.	1.2	69

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37	Hierarchical Calcite Crystals with Occlusions of a Simple Polyelectrolyte Mimic Complex Biomineral Structures. <i>Advanced Functional Materials</i> , 2012, 22, 4668-4676.	7.8	69
38	Hierarchically Structured Ceramics by High-Precision Nanoparticle Casting of Wood. <i>Small</i> , 2006, 2, 994-998.	5.2	68
39	Scanning texture analysis of lamellar bone using microbeam synchrotron X-ray radiation. <i>Journal of Applied Crystallography</i> , 2007, 40, 115-120.	1.9	68
40	The Two Plastidial Starch-Related Dikinases Sequentially Phosphorylate Glucosyl Residues at the Surface of Both the A- and B-Type Allomorphs of Crystallized Maltodextrins But the Mode of Action Differs. <i>Plant Physiology</i> , 2009, 150, 962-976.	2.3	67
41	In situ X-ray diffraction investigation of thermal decomposition of wood cellulose. <i>Journal of Analytical and Applied Pyrolysis</i> , 2007, 80, 134-140.	2.6	65
42	The Use of Small-Angle X-Ray Diffraction Studies for the Analysis of Structural Features in Archaeological Samples. <i>Archaeometry</i> , 2001, 43, 117-129.	0.6	64
43	The implication of chemical extraction treatments on the cell wall nanostructure of softwood. <i>Cellulose</i> , 2008, 15, 407.	2.4	64
44	Skin-core structure and bimodal Weibull distribution of the strength of carbon fibers. <i>Carbon</i> , 2007, 45, 2801-2805.	5.4	60
45	Pole figure analysis of mineral nanoparticle orientation in individual trabecula of human vertebral bone. <i>Journal of Applied Crystallography</i> , 2003, 36, 494-498.	1.9	54
46	Scanning X-ray imaging with small-angle scattering contrast. <i>Journal of Applied Crystallography</i> , 2007, 40, s78-s82.	1.9	54
47	Evaluation of 3D small-angle scattering from non-spherical particles in single crystals. <i>Journal of Applied Crystallography</i> , 1993, 26, 820-826.	1.9	51
48	Moisture-Driven Ceramic Bilayer Actuators from a Biotemplating Approach. <i>Advanced Materials</i> , 2016, 28, 5235-5240.	11.1	48
49	Isolation of Mesoporous Biogenic Silica from the Perennial Plant <i>Equisetum hyemale</i> . <i>Chemistry of Materials</i> , 2008, 20, 2020-2025.	3.2	47
50	Adsorption-Induced Deformation of Hierarchically Structured Mesoporous Silica—Effect of Pore-Level Anisotropy. <i>Langmuir</i> , 2017, 33, 5592-5602.	1.6	47
51	Structural and analytical studies of silica accumulations in <i>Equisetum hyemale</i> . <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1249-1257.	1.9	46
52	Scanning small-angle X-ray scattering analysis of the size and organization of the mineral nanoparticles in fluorotic bone using a stack of cards model. <i>Journal of Applied Crystallography</i> , 2010, 43, 1385-1392.	1.9	45
53	Surfactant Self-Assembly in Cylindrical Silica Nanopores. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1442-1446.	2.1	45
54	Crystal Phase Transitions in the Shell of PbS/CdS Core/Shell Nanocrystals Influences Photoluminescence Intensity. <i>Chemistry of Materials</i> , 2014, 26, 5914-5922.	3.2	44

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55	Development of the Fibrillar and Microfibrillar Structure During Biomimetic Mineralization of Wood. <i>Advanced Functional Materials</i> , 2013, 23, 1265-1272.	7.8	43
56	Fluid adsorption in ordered mesoporous solids determined by in situ small-angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7211.	1.3	41
57	Recent Progress in the Replication of Hierarchical Biological Tissues. <i>Advanced Functional Materials</i> , 2013, 23, 4408-4422.	7.8	39
58	A carbon nanopore model to quantify structure and kinetics of ion electrosorption with in situ small-angle X-ray scattering. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 15549-15561.	1.3	39
59	Nanoporous polymer-derived activated carbon for hydrogen adsorption and electrochemical energy storage. <i>Chemical Engineering Journal</i> , 2022, 427, 131730.	6.6	38
60	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.	1.9	37
61	Silica replication of the hierarchical structure of wood with nanometer precision. <i>Journal of Materials Research</i> , 2011, 26, 1193-1202.	1.2	37
62	The internal structure of single carbon fibers determined by simultaneous small- and wide-angle scattering. <i>Journal of Applied Crystallography</i> , 2000, 33, 695-699.	1.9	36
63	Evolution of microstructures during dynamic recrystallization and dynamic recovery in hot deformed Nimonic 80a. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 367, 198-204.	2.6	35
64	Nanostructure of Biogenic Calcite Crystals: A View by Small-Angle X-Ray Scattering. <i>Crystal Growth and Design</i> , 2011, 11, 2054-2058.	1.4	35
65	Biological fabrication of cellulose fibers with tailored properties. <i>Science</i> , 2017, 357, 1118-1122.	6.0	35
66	Structural Characterization of Surfactant Aggregates Adsorbed in Cylindrical Silica Nanopores. <i>Langmuir</i> , 2011, 27, 5252-5263.	1.6	33
67	Microporous novolac-derived carbon beads/sulfur hybrid cathode for lithium-sulfur batteries. <i>Journal of Power Sources</i> , 2017, 357, 198-208.	4.0	33
68	Mapping fibre orientation in complex-shaped biological systems with micrometre resolution by scanning X-ray microdiffraction. <i>Micron</i> , 2008, 39, 198-205.	1.1	32
69	Pore lattice deformation in ordered mesoporous silica studied by in situ small-angle X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2007, 40, s522-s526.	1.9	30
70	In-situ small-angle neutron scattering study of pore filling and pore emptying in ordered mesoporous silica. <i>Journal of Applied Crystallography</i> , 2010, 43, 1-7.	1.9	29
71	Pore-lattice deformations in ordered mesoporous matrices: experimental studies and theoretical analysis. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11267.	1.3	29
72	In Situ Measurement of Electrosorption-Induced Deformation Reveals the Importance of Micropores in Hierarchical Carbons. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 23319-23324.	4.0	29

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73	Influence of Cr ₂₃ C ₆ carbides on dynamic recrystallization in hot deformed Nimonic 80a alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 358, 44-51.	2.6	28
74	Pore Structure and Fluid Sorption in Ordered Mesoporous Silica. II. Modeling. <i>Journal of Physical Chemistry C</i> , 2009, 113, 15211-15217.	1.5	28
75	Comparing pore structure models of nanoporous carbons obtained from small angle X-ray scattering and gas adsorption. <i>Carbon</i> , 2019, 152, 416-423.	5.4	28
76	Curvature-induced excess surface energy of fullerenes: Density functional theory and Monte Carlo simulations. <i>Physical Review B</i> , 2010, 81, .	1.1	27
77	3D Printing of Hierarchical Porous Silica and Î±-Quartz. <i>Advanced Materials Technologies</i> , 2018, 3, 1800060.	3.0	27
78	Breaking of Rotational Symmetry during Decomposition of Elastically Anisotropic Alloys. <i>Physical Review Letters</i> , 1995, 75, 3458-3461.	2.9	25
79	Calcium Phosphate with a Channel-like Morphology by Polymer Templating. <i>Chemistry of Materials</i> , 2009, 21, 1572-1578.	3.2	25
80	Elastic properties of graphene obtained by computational mechanical tests. <i>Europhysics Letters</i> , 2013, 103, 68004.	0.7	25
81	Small-Angle Scattering of S-Layer Metallization. <i>Advanced Materials</i> , 2006, 18, 915-919.	11.1	24
82	Cross-sectional texture of carbon fibres analysed by scanning microbeam X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2001, 34, 473-479.	1.9	23
83	Relationship Between Pore Structure and Sorption-Induced Deformation in Hierarchical Silica-Based Monoliths. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015, 229, 1189-1209.	1.4	23
84	Local microstructure and its influence on precipitation behavior in hot deformed Nimonic 80a. <i>Acta Materialia</i> , 2003, 51, 4149-4160.	3.8	21
85	Humidity-driven deformation of ordered mesoporous silica films. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014, 3, 183-190.	0.7	21
86	The effects of water uptake on mechanical properties of viscose fibers. <i>Cellulose</i> , 2015, 22, 2777-2786.	2.4	21
87	Structure and mechanical properties of carbon fibres: a review of recent microbeam diffraction studies with synchrotron radiation. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 758-764.	1.0	19
88	Hierarchically Organized and Anisotropic Porous Carbon Monoliths. <i>Chemistry of Materials</i> , 2020, 32, 3944-3951.	3.2	19
89	Analysis of pore structure and gas adsorption in periodic mesoporous solids by in situ small-angle X-ray scattering. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 357, 3-10.	2.3	16
90	Setting Directions: Anisotropy in Hierarchically Organized Porous Silica. <i>Chemistry of Materials</i> , 2017, 29, 7969-7975.	3.2	16

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91	The influence of drying and calcination on surface chemistry, pore structure and mechanical properties of hierarchically organized porous silica monoliths. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109578.	2.2	16
92	The role of topology and thermal backbone fluctuations on sacrificial bond efficacy in mechanical metalloproteins. <i>New Journal of Physics</i> , 2014, 16, 013003.	1.2	15
93	Cantilever bending based on humidity-actuated mesoporous silica/silicon bilayers. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 637-644.	1.5	15
94	Nanofibers versus Nanopores: A Comparison of the Electrochemical Performance of Hierarchically Ordered Porous Carbons. <i>ACS Applied Energy Materials</i> , 2019, 2, 5279-5291.	2.5	15
95	Pore characteristics and mechanical properties of silica templated by wood. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014, 3, 160-168.	0.7	14
96	Transparent cellulose sheets as synthesis matrices for inorganic functional particles. <i>Carbohydrate Polymers</i> , 2012, 87, 257-264.	5.1	13
97	Considerations on the model-free shape retrieval of inorganic nanocrystals from small-angle scattering data. <i>Journal of Applied Crystallography</i> , 2015, 48, 857-868.	1.9	13
98	Towards Real-Time Ion-Specific Structural Sensitivity in Nanoporous Carbon Electrodes Using In Situ Anomalous Small-Angle X-ray Scattering. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 42214-42220.	4.0	13
99	Diffracting "stacks of cards" - some thoughts about small-angle scattering from bone. , 2005, , 33-39.		12
100	Apparent lattice expansion in ordered nanoporous silica during capillary condensation of fluids. <i>Journal of Applied Crystallography</i> , 2012, 45, 798-806.	1.9	12
101	Quantifying adsorption-induced deformation of nanoporous materials on different length scales. <i>Journal of Applied Crystallography</i> , 2017, 50, 1404-1410.	1.9	12
102	Mechanical Characterization of Hierarchical Structured Porous Silica by in Situ Dilatometry Measurements during Gas Adsorption. <i>Langmuir</i> , 2019, 35, 2948-2956.	1.6	12
103	Repeated sorption of water in SBA-15 investigated by means of <i>in situ</i> small-angle x-ray scattering. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 284112.	0.7	11
104	Deformation mechanism of nanoporous materials upon water freezing and melting. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	11
105	The pomelo peel and derived nanoscale-precision gradient silica foams. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2012, 1, 117-122.	0.7	11
106	The structural evolution of multi-layer graphene stacks in carbon fibers under load at high temperature - A synchrotron radiation study. <i>Carbon</i> , 2014, 80, 373-381.	5.4	11
107	In Situ Small-Angle Neutron Scattering Investigation of Adsorption-Induced Deformation in Silica with Hierarchical Porosity. <i>Langmuir</i> , 2019, 35, 11590-11600.	1.6	11
108	Reversibly compressible and freestanding monolithic carbon spherogels. <i>Carbon</i> , 2019, 153, 189-195.	5.4	11

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109	Hierarchical Architectures to Enhance Structural and Functional Properties of Brittle Materials. <i>Advanced Engineering Materials</i> , 2017, 19, 1600683.	1.6	10
110	Structural analysis of <i>Gossypium hirsutum</i> fibers grown under greenhouse and hydroponic conditions. <i>Journal of Structural Biology</i> , 2016, 194, 292-302.	1.3	9
111	SANS investigation of phase separation in hot-deformed Nimonic 80a. <i>Scripta Materialia</i> , 2002, 47, 25-30.	2.6	8
112	Development of foam-like emulsion phases in porous media flow. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1064-1073.	5.0	8
113	Mapping Lattice Spacing and Composition in Biological Materials by Means of Microbeam X-ray Diffraction. <i>Advanced Engineering Materials</i> , 2011, 13, 784-792.	1.6	7
114	Pore shape and sorption behaviour in mesoporous ordered silica films. <i>Journal of Applied Crystallography</i> , 2016, 49, 1713-1720.	1.9	7
115	Plasma-Derived Graphene-Based Materials for Water Purification and Energy Storage. <i>Journal of Carbon Research</i> , 2019, 5, 16.	1.4	7
116	Hybrid carbon spherogels: carbon encapsulation of nano-titania. <i>Chemical Communications</i> , 2021, 57, 3905-3908.	2.2	7
117	Separation of scattering contributions from carbides and γ' precipitates in Nimonic 80a by combining small-angle X-ray and neutron scattering. <i>Journal of Applied Crystallography</i> , 2003, 36, 484-488.	1.9	6
118	Nanomechanical studies of the compressive behavior of carbon fibers. <i>Journal of Materials Science</i> , 2010, 45, 6845-6848.	1.7	6
119	Passive and active mechanical properties of biotemplated ceramics revisited. <i>Bioinspiration and Biomimetics</i> , 2016, 11, 065001.	1.5	6
120	CHAPTER 8. The Mineralized Crustacean Cuticle: Hierarchical Structure and Mechanical Properties. <i>RSC Smart Materials</i> , 2013, , 180-196.	0.1	5
121	Complementary High Spatial Resolution Methods in Materials Science and Engineering. <i>Advanced Engineering Materials</i> , 2017, 19, 1600671.	1.6	5
122	Adsorption-induced deformation of hierarchical organised carbon materials with ordered, non-convex mesoporosity. <i>Molecular Physics</i> , 2021, 119, .	0.8	5
123	A new device for high-temperature <i>in situ</i> GISAXS measurements. <i>Review of Scientific Instruments</i> , 2018, 89, 035103.	0.6	4
124	Hierarchically organized materials with ordered mesopores: adsorption isotherm and adsorption-induced deformation from small-angle scattering. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12713-12723.	1.3	4
125	Capillary bridge formation between hexagonally ordered carbon nanorods. <i>Adsorption</i> , 2020, 26, 563-578.	1.4	4
126	Microcracks in Carbon/Carbon Composites: A Microtomography Investigation using Synchrotron Radiation. <i>Materials Research Society Symposia Proceedings</i> , 2001, 678, 381.	0.1	3

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127	Shell-Models for Multi-Layer Carbon Nano-Particles. Advanced Structured Materials, 2011, , 585-602.	0.3	3
128	A Facile One-Pot Synthesis of Hierarchically Organized Carbon/TiO ₂ Monoliths with Ordered Mesopores. ChemPlusChem, 2021, 86, 275-283.	1.3	3
129	Some introductory remarks on microbeam diffraction in nanobiosciences. Journal of Synchrotron Radiation, 2005, 12, 712-712.	1.0	2
130	Small-angle scattering from spherical particles on randomly oriented interfaces. International Journal of Materials Research, 2006, 97, 290-294.	0.8	1
131	Bioinspired composites – next generation of materials and devices. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3, 121-122.	0.7	1
132	Bowtie-Shaped Deformation Isotherm of Superhydrophobic Cylindrical Mesopores. Langmuir, 2022, 38, 211-220.	1.6	1
133	Water Melting Induced Deformation of Ordered Nanoporous Silica. , 2013, , .		0
134	Small-angle scattering from spherical particles on randomly oriented interfaces. International Journal of Materials Research, 2022, 97, 290-294.	0.1	0