

Herwig Peterlik

List of Publications by Year in descending order

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198
papers

6,618
citations

61857

43
h-index

76769

74
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209
all docs

209
docs citations

209
times ranked

8418
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	From brittle to ductile fracture of bone. <i>Nature Materials</i> , 2006, 5, 52-55.	13.3	411
3	Confined linear carbon chains as a route to bulk C_{60} . <i>Nature Materials</i> , 2016, 15, 634-639.	13.3	341
4	Chairside CAD/CAM materials. Part 1: Measurement of elastic constants and microstructural characterization. <i>Dental Materials</i> , 2017, 33, 84-98.	1.6	287
5	Determination of SWCNT diameters from the Raman response of the radial breathing mode. <i>European Physical Journal B</i> , 2001, 22, 307-320.	0.6	260
6	An Air-Stable Organometallic Low-Molecular-Mass Gelator: Synthesis, Aggregation, and Catalytic Application of a Palladium Pincer Complex. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6368-6371.	7.2	194
7	Effect of interparticle interactions on size determination of zirconia and silica based systems – A comparison of SAXS, DLS, BET, XRD and TEM. <i>Chemical Physics Letters</i> , 2012, 521, 91-97.	1.2	143
8	Glycol-Modified Silanes in the Synthesis of Mesoscopically Organized Silica Monoliths with Hierarchical Porosity. <i>Chemistry of Materials</i> , 2005, 17, 4262-4271.	3.2	138
9	Age- and genotype-dependence of bone material properties in the osteogenesis imperfecta murine model (oim). <i>Bone</i> , 2001, 29, 453-457.	1.4	122
10	Low temperature fullerene encapsulation in single wall carbon nanotubes: synthesis of $\text{N}@C_{60}@SWCNT$. <i>Chemical Physics Letters</i> , 2004, 383, 362-367.	1.2	122
11	Efficient Air-Stable Organometallic Low-Molecular-Mass Gelators for Ionic Liquids: Synthesis, Aggregation and Application of Pyridine-Bridged Bis(benzimidazolylidene)-Palladium Complexes. <i>Chemistry - A European Journal</i> , 2009, 15, 1853-1861.	1.7	119
12	Inorganic-Organic Hybrid Polymers by Polymerization of Methacrylate- or Acrylate-Substituted Oxotitanium Clusters with Methyl Methacrylate or Methacrylic Acid. <i>Chemistry of Materials</i> , 2002, 14, 2732-2740.	3.2	93
13	Periodically Mesostructured Silica Monoliths from Diol-Modified Silanes. <i>Chemistry of Materials</i> , 2003, 15, 2690-2692.	3.2	87
14	Structural Characterization of Gel-Derived Calcium Silicate Systems. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10403-10411.	1.1	87
15	Texture of PAN- and pitch-based carbon fibers. <i>Carbon</i> , 2002, 40, 551-555.	5.4	86
16	Pyridine-Bridged Benzimidazolium Salts: Synthesis, Aggregation, and Application as Phase-Transfer Catalysts. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 7127-7131.	7.2	78
17	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
18	Dynamics of Carbon Nanotube Growth from Fullerenes. <i>Nano Letters</i> , 2007, 7, 2428-2434.	4.5	72

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19	Direct Observation of Nanocrystallite Buckling in Carbon Fibers under Bending Load. <i>Physical Review Letters</i> , 2005, 95, 225501.	2.9	69
20	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15267-15273.	7.2	69
21	A dual crosslinked self-healing system: Supramolecular and covalent network formation of four-arm star polymers. <i>Polymer</i> , 2015, 69, 264-273.	1.8	68
22	Surface-active ionic liquids in micellar catalysis: impact of anion selection on reaction rates in nucleophilic substitutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13375-13384.	1.3	68
23	Coating of Carbon Fibers-The Strength of the Fibers. <i>Journal of the American Ceramic Society</i> , 1995, 78, 133-136.	1.9	66
24	Experimental Investigation of Mechanical Properties of Metallic Hollow Sphere Structures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2008, 39, 135-146.	1.0	66
25	Structural development of PAN-based carbon fibers studied by in situ X-ray scattering at high temperatures under load. <i>Carbon</i> , 2010, 48, 964-971.	5.4	61
26	Skin-core structure and bimodal Weibull distribution of the strength of carbon fibers. <i>Carbon</i> , 2007, 45, 2801-2805.	5.4	60
27	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5763-5768.	7.2	60
28	Facile Self-Assembly Processes to Phenylene-Bridged Silica Monoliths with Four Levels of Hierarchy. <i>Small</i> , 2006, 2, 503-506.	5.2	56
29	The validity of Weibull estimators. <i>Journal of Materials Science</i> , 1995, 30, 1972-1976.	1.7	54
30	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017, 139, 5175-5182.	6.6	54
31	Grasping the Lithium hype: Insights into modern dental Lithium Silicate glass-ceramics. <i>Dental Materials</i> , 2022, 38, 318-332.	1.6	54
32	Solvent-driven electron trapping and mass transport in reduced graphites to access perfect graphene. <i>Nature Communications</i> , 2016, 7, 12411.	5.8	53
33	Magnetic behaviour of a hybrid polymer obtained from ethyl acrylate and the magnetic cluster Mn ₁₂ O ₁₂ (acrylate) ₁₆ . <i>Journal of Materials Chemistry</i> , 2004, 14, 1873-1878.	6.7	50
34	A novel resonant beam technique to determine the elastic moduli in dependence on orientation and temperature up to 2000°C. <i>Review of Scientific Instruments</i> , 1999, 70, 3052-3058.	0.6	49
35	Simultaneous drying and chemical modification of hierarchically organized silica monoliths with organofunctional silanes. <i>Journal of Materials Chemistry</i> , 2005, 15, 3896.	6.7	49
36	Hierarchically Nanostructured Polyisobutylene-Based Ionic Liquids. <i>Macromolecules</i> , 2012, 45, 2074-2084.	2.2	49

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37	Mixed Silica Titania Materials Prepared from a Single-Source Solâ€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.	3.2	48
38	Fullerene release from the inside of carbon nanotubes: A possible route toward drug delivery. <i>Chemical Physics Letters</i> , 2007, 445, 288-292.	1.2	47
39	Solâ€Gel Processing of a Glycolated Cyclic Organosilane and Its Pyrolysis to Silicon Oxycarbide Monoliths with Multiscale Porosity and Large Surface Areas. <i>Chemistry of Materials</i> , 2010, 22, 1509-1520.	3.2	46
40	Doping of metalâ€organic frameworks towards resistive sensing. <i>Scientific Reports</i> , 2017, 7, 2439.	1.6	45
41	Ring-opening metathesis polymerizations with norbornene carboxylate-substituted metal oxo clusters. <i>Journal of Materials Chemistry</i> , 2006, 16, 3268.	6.7	44
42	Small-Angle X-Ray Scattering to Characterize Nanostructures in Inorganic and Hybrid Materials Chemistry. <i>Monatshefte FÃ¼r Chemie</i> , 2006, 137, 529-543.	0.9	42
43	Synthesis and Properties of Highly Dispersed Ionic Silicaâ€Poly(ethylene oxide) Nanohybrids. <i>ACS Nano</i> , 2013, 7, 1265-1271.	7.3	41
44	Cellular mesoscopically organized silica monoliths with tailored surface chemistry by one-step drying/extraction/surface modification processes. <i>Journal of Materials Chemistry</i> , 2005, 15, 1801.	6.7	40
45	Fracture anisotropy in texturized lithium disilicate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018, 481, 457-469.	1.5	39
46	Pore structure of carbon/carbon composites studied by small-angle X-ray scattering. <i>Carbon</i> , 1994, 32, 939-945.	5.4	38
47	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
48	Orientation dependent fracture toughness of lamellar bone. <i>International Journal of Fracture</i> , 2006, 139, 395-405.	1.1	34
49	Determination of interface parameters for carbon/carbon composites by the fibre-bundle pull-out test. <i>Composites Science and Technology</i> , 1996, 56, 1017-1029.	3.8	32
50	Effect of hot stretching graphitization on the structure and mechanical properties of rayon-based carbon fibers. <i>Journal of Materials Science</i> , 2014, 49, 673-684.	1.7	32
51	Bimodal strength distributions and flaw populations of ceramics and fibres. <i>Engineering Fracture Mechanics</i> , 2001, 68, 253-261.	2.0	31
52	Experimental validation of the shear correction factor. <i>Journal of Sound and Vibration</i> , 2003, 261, 177-184.	2.1	31
53	Preparation of mesoporous titania by surfactant-assisted solâ€gel processing of acetaldoxime-modified titanium alkoxides. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1217-1227.	1.5	30
54	Liquid-phase syntheses of cobalt ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	30

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55	Structural flexibility of RNA as molecular basis for Hfq chaperone function. <i>Nucleic Acids Research</i> , 2012, 40, 8072-8084.	6.5	29
56	Reaction of bone nanostructure to a biodegrading Magnesium WZ21 implant – A scanning small-angle X-ray scattering time study. <i>Acta Biomaterialia</i> , 2016, 31, 448-457.	4.1	29
57	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 699-705.	1.7	26
58	Mechanical, thermomechanical, and thermal properties of polystyrene crosslinked with a multifunctional zirconium oxo cluster. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2215-2231.	2.4	26
59	Atomistic Structure of Monomolecular Surface Layer Self-Assemblies: Toward Functionalized Nanostructures. <i>ACS Nano</i> , 2011, 5, 2288-2297.	7.3	26
60	Surface modification of MoS ₂ nanoparticles with ionic liquid – ligands: towards highly dispersed nanoparticles. <i>Chemical Communications</i> , 2013, 49, 9311.	2.2	26
61	Effect of surface roughness on friction in fibre-bundle pull-out tests. <i>Composites Science and Technology</i> , 2005, 65, 981-988.	3.8	25
62	Anion metathesis in ionic silicananoparticle networks. <i>Journal of Materials Chemistry</i> , 2010, 20, 1269-1276.	6.7	25
63	Different Synthesis Protocols for Co ₃ O ₄ – CeO ₂ Catalysts – Part 1: Influence on the Morphology on the Nanoscale. <i>Chemistry - A European Journal</i> , 2015, 21, 885-892.	1.7	24
64	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
65	Nickel clusters embedded in carbon nanotubes as high performance magnets. <i>Scientific Reports</i> , 2015, 5, 15033.	1.6	23
66	Investigation of microemulsion microstructure and its impact on skin delivery of flufenamic acid. <i>International Journal of Pharmaceutics</i> , 2015, 490, 292-297.	2.6	23
67	Non-contacting strain measurements of ceramic and carbon single fibres by using the laser-speckle method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2003, 34, 1029-1033.	3.8	22
68	Asymmetric polysilazane-derived ceramic structures with multiscalar porosity for membrane applications. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 196-204.	2.2	22
69	Elastic moduli and interlaminar shear strength of a bidirectional carboncarbon composite after heat treatment. <i>Composites Science and Technology</i> , 1995, 53, 7-12.	3.8	21
70	Inhomogeneity of C ¹³ isotope distribution in isotope engineered carbon nanotubes: Experiment and theory. <i>Physical Review B</i> , 2007, 75, .	1.1	21
71	Polyarene – Functionalized Fullerenes in Carbon Nanotubes: Towards Controlled Geometry of Molecular Chains. <i>Small</i> , 2008, 4, 2262-2270.	5.2	21
72	Keratin homogeneity in the tail feathers of <i>Pavo cristatus</i> and <i>Pavo cristatus mut. alba</i> . <i>Journal of Structural Biology</i> , 2010, 172, 270-275.	1.3	21

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73	Novel Solâ€“Gel Precursors for Thin Mesoporous Eu ³⁺ -Doped Silica Coatings as Efficient Luminescent Materials.. Chemistry of Materials, 2012, 24, 3674-3683.	3.2	21
74	Study of the effect of the concentration, size and surface chemistry of zirconia and silica nanoparticle fillers within an epoxy resin on the bulk properties of the resulting nanocomposites. Polymer International, 2012, 61, 274-285.	1.6	21
75	Nanoparticles/Ionic Linkers of Different Lengths: Short-Range Order Evidenced by Small-Angle X-ray Scattering. Journal of Physical Chemistry C, 2009, 113, 6547-6552.	1.5	20
76	Structure and mechanical properties of carbon fibres: a review of recent microbeam diffraction studies with synchrotron radiation. Journal of Synchrotron Radiation, 2005, 12, 758-764.	1.0	19
77	Photoluminescence as Complementary Evidence for Short-Range Order in Ionic Silica Nanoparticle Networks. Journal of Physical Chemistry C, 2010, 114, 21342-21347.	1.5	19
78	Designing melt flow of poly(isobutylene)-based ionic liquids. Journal of Materials Chemistry A, 2013, 1, 12159.	5.2	19
79	Cycle Stability and Hydration Behavior of Magnesium Oxide and Its Dependence on the Precursor-Related Particle Morphology. Nanomaterials, 2018, 8, 795.	1.9	19
80	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. Nanoscale, 2019, 11, 10615-10621.	2.8	19
81	Relationships between fracture toughness, Y ₂ O ₃ fraction and phases content in modern dental Yttria-doped zirconias. Journal of the European Ceramic Society, 2021, 41, 7771-7782.	2.8	19
82	Structural Investigations on Hybrid Polymers Suitable as a Nanoparticle Precipitation Environment. Chemistry of Materials, 2009, 21, 695-705.	3.2	18
83	Surface layer protein characterization by small angle x-ray scattering and a fractal mean force concept: From protein structure to nanodisk assemblies. Journal of Chemical Physics, 2010, 133, 175102.	1.2	18
84	Solâ€“gel synthesis of ZnTiO ₃ using a single-source precursor based on p-carboxybenzaldehyde oxime as a linker. Journal of Materials Chemistry, 2012, 22, 24034.	6.7	18
85	Ageing bone fractures: The case of a ductile to brittle transition that shifts with age. Bone, 2020, 131, 115176.	1.4	18
86	Structural investigation of alumina silica mixed oxide gels prepared from organically modified precursors. Journal of Non-Crystalline Solids, 2007, 353, 1635-1644.	1.5	17
87	Controlling intermolecular spin interactions of La@C ₈₂ in empty fullerene matrices. Physical Chemistry Chemical Physics, 2010, 12, 1618.	1.3	17
88	Nanoparticle Assemblies as Probes for Self-Assembled Monolayer Characterization: Correlation between Surface Functionalization and Agglomeration Behavior. Langmuir, 2012, 28, 741-750.	1.6	17
89	Microcracks and Osteoclast Resorption Activity In Vitro. Calcified Tissue International, 2012, 90, 230-238.	1.5	17
90	Comparison of evaluation procedures for the subcritical crack growth parameter n. Journal of the European Ceramic Society, 1994, 13, 509-519.	2.8	16

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91	Relationship of Strength and Defects of Ceramic Materials and Their Treatment by Weibull Theory.. Journal of the Ceramic Society of Japan, 2001, 109, S121-S126.	1.3	16
92	Characterizing the Sâ€œlayer structure and antiâ€œSâ€œlayer antibody recognition on intact <i>Tannerella forsythia</i> cells by scanning probe microscopy and small angle Xâ€œray scattering. Journal of Molecular Recognition, 2013, 26, 542-549.	1.1	16
93	Formation of RuO2 nanoparticles by thermal decomposition of Ru(NO)(NO3)3. Ceramics International, 2015, 41, 7811-7815.	2.3	16
94	Title is missing!. Journal of Materials Science, 2000, 35, 707-711.	1.7	15
95	Small-angle X-ray scattering investigation of the cluster distribution in inorganicâ€œorganic hybrid polymers prepared from organically substituted metal oxide clusters. Comptes Rendus Chimie, 2004, 7, 495-502.	0.2	15
96	Identifying the electron spin resonance of conduction electrons in alkali doped SWCNTs. Physica Status Solidi (B): Basic Research, 2009, 246, 2760-2763.	0.7	15
97	Studies on the Formation of CdS Nanoparticles from Solutions of (NMe₄)₄ [Cd₁₀S₄(SPh)₁₆]. European Journal of Inorganic Chemistry, 2010, 2010, 2266-2275.	1.0	15
98	Inorganicâ€œorganic hybrid materials through post-synthesis modification: Impact of the treatment with azides on the mesopore structure. Beilstein Journal of Nanotechnology, 2011, 2, 486-498.	1.5	15
99	Timescales of self-healing in human bone tissue and polymeric ionic liquids. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3, 123-130.	0.7	15
100	Potassium intercalated multiwalled carbon nanotubes. Carbon, 2016, 105, 90-95.	5.4	15
101	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. Journal of the American Chemical Society, 2021, 143, 18997-19007.	6.6	15
102	Hutchinson's shear coefficient for anisotropic beams. Journal of Sound and Vibration, 2003, 266, 207-216.	2.1	14
103	A new fibre-bundle pull-out test to determine interface properties of a 2D-woven carbon/carbon composite. Composites Science and Technology, 2003, 63, 653-660.	3.8	14
104	Epoxy Resin Nanocomposites: The Influence of Interface Modification on the Dispersion Structureâ€œA Small-Angle-X-ray-Scattering Study. Surfaces, 2020, 3, 664-682.	1.0	14
105	The dependence of the elastic moduli of reaction bonded alumina on porosity. Journal of the European Ceramic Society, 2007, 27, 35-39.	2.8	13
106	Variation of the crosslinking density in cluster-reinforced polymers. Materials Today Communications, 2015, 5, 10-17.	0.9	13
107	Influence of DVB as linker molecule on the micropore formation in polymer-derived SiCN ceramics. Journal of the European Ceramic Society, 2021, 41, 3292-3302.	2.8	13
108	Size independence of the strength of snow. Physical Review E, 2004, 69, 011306.	0.8	12

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109	Nanostructure of Gel-Derived Aluminosilicate Materials. <i>Langmuir</i> , 2008, 24, 949-956.	1.6	12
110	Structural transformations of heat-treated bacterial iron oxide. <i>Materials Chemistry and Physics</i> , 2015, 155, 67-75.	2.0	12
111	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017, 129, 15469-15475.	1.6	12
112	Calcium Doping Facilitates Water Dissociation in Magnesium Oxide. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700096.	2.7	12
113	Gitteröffnung durch reduktive kovalente Volumenfunktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019, 131, 5820-5826.	1.6	12
114	Biphenyl-Bridged Organosilica as a Precursor for Mesoporous Silicon Oxycarbide and Its Application in Lithium and Sodium Ion Batteries. <i>Nanomaterials</i> , 2019, 9, 754.	1.9	12
115	Mesoporous dendrimer silica monoliths studied by small-angle X-ray scattering. <i>Journal of Materials Chemistry</i> , 2008, 18, 4783.	6.7	11
116	Atom Transfer Radical Polymerizations of Complexes Based on Ti and Zr Alkoxides Modified with β -Keto Ester Ligands and Transformation of the Resulting Polymers in Nanocomposites. <i>Macromolecules</i> , 2008, 41, 1131-1139.	2.2	11
117	Organosilica Monoliths with Multiscale Porosity: Detailed Investigation of the Influence of the Surfactant on Structure Formation. <i>Silicon</i> , 2009, 1, 19-28.	1.8	11
118	Supported and Free-Standing Sulfonic Acid Functionalized Mesostructured Silica Films with High Proton Conductivity. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 3993-3999.	1.0	11
119	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
120	A detailed comparison of CVD grown and precursor based DWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 1943-1946.	0.7	10
121	Batch-wise adsorption, saxs and microscopic studies of zeolite pelletized with biopolymeric alginate. <i>Brazilian Journal of Chemical Engineering</i> , 2011, 28, 63-71.	0.7	10
122	Surface-Active Ionic Liquids in Catalytic Water Splitting. <i>Australian Journal of Chemistry</i> , 2019, 72, 34.	0.5	10
123	In-situ small angle X-ray scattering (SAXS) – A versatile tool for clarifying the evolution of microporosity in polymer-derived ceramics. <i>Microporous and Mesoporous Materials</i> , 2021, 324, 111268.	2.2	10
124	Structure investigation of intelligent aerogels. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 392-393.	1.3	9
125	Organically modified mixed-oxide sol-gel films with complex compositions and pore structures. <i>Journal of Materials Chemistry</i> , 2009, 19, 75-81.	6.7	9
126	Electron spin resonance from semiconductor-metal separated SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2851-2854.	0.7	9

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127	Porous Titania Ionic Nanoparticle Networks. <i>Langmuir</i> , 2011, 27, 4110-4116.	1.6	9
128	Strategies for the covalent conjugation of a bifunctional chelating agent to albumin: Synthesis and characterization of potential MRI contrast agents. <i>Journal of Inorganic Biochemistry</i> , 2011, 105, 250-255.	1.5	9
129	Small-Angle X-Ray Scattering for Imaging of Surface Layers on Intact Bacteria in the Native Environment. <i>Journal of Bacteriology</i> , 2013, 195, 2408-2414.	1.0	9
130	Porous titanium and zirconium oxo carboxylates at the interface between sol-gel and metal-organic framework structures. <i>Dalton Transactions</i> , 2014, 43, 950-957.	1.6	9
131	Hierarchically Organized Silica-Titania Monoliths Prepared under Purely Aqueous Conditions. <i>Chemistry - A European Journal</i> , 2014, 20, 17409-17419.	1.7	9
132	Ovalbumin Epitope SIINFEKL Self-Assembles into a Supramolecular Hydrogel. <i>Scientific Reports</i> , 2019, 9, 2696.	1.6	9
133	Uniformly oriented, ellipsoidal nanovoids in glass created by electric-field-assisted dissolution of metallic nanoparticles. <i>Physical Review B</i> , 2009, 79, .	1.1	8
134	Meso-scale mechanical testing methods for diamond composite materials. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010, 28, 508-515.	1.7	8
135	Various Three-Dimensional Structures Connected by Al-O/OH/Acetate-Al Bonds. <i>Inorganic Chemistry</i> , 2013, 52, 13238-13243.	1.9	8
136	Self-supporting hierarchically organized silicon networks via magnesiothermic reduction. <i>Monatshefte für Chemie</i> , 2016, 147, 269-278.	0.9	8
137	Toughening by revitrification of Li ₂ SiO ₃ crystals in Obsidian® dental glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104739.	1.5	8
138	Transverse expansion of 2-D carbon/carbon laminates as a consequence of delamination. <i>Composites Science and Technology</i> , 1992, 45, 65-72.	3.8	7
139	Elastic Moduli of Porous and Anisotropic Composites at High Temperatures. <i>Advanced Engineering Materials</i> , 2004, 6, 138-142.	1.6	7
140	Extension of the resonant beam technique to highly anisotropic materials. <i>Journal of Sound and Vibration</i> , 2005, 279, 1121-1129.	2.1	7
141	Polyester Preparation in the Presence of Pristine and Phosphonic Acid-Modified Zirconia Nanopowders. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 219-227.	1.7	7
142	Crystallization in segregated supramolecular pseudoblock copolymers. <i>European Polymer Journal</i> , 2015, 64, 138-146.	2.6	7
143	The formation of ZnO nanoparticles from zinc gluconate. <i>Ceramics International</i> , 2015, 41, 4975-4981.	2.3	7
144	Hierarchically organized silica monoliths: influence of different acids on macro- and mesoporous formation. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 103-111.	1.1	7

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145	Viscoelastic effects in testing of an Al ₂ O ₃ ceramic containing a glassy phase. Journal of Materials Science, 1993, 28, 4341-4346.	1.7	6
146	Changing poisson's ratio of mesoporous silica monoliths with high temperature treatment. Journal of Non-Crystalline Solids, 2006, 352, 5251-5256.	1.5	6
147	Growth mechanisms of inner-shell tubes in double-wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4097-4101.	0.7	6
148	The structure of carbon fibres. , 2009, , 353-377.		6
149	Titanium alkoxo oximates, with surfactant-like properties of the oximate ligands, as precursors for porous TiO ₂ and mixed oxide sol-gel films. Journal of Materials Chemistry, 2010, 20, 5527.	6.7	6
150	Engineering molecular chains in carbon nanotubes. Nanoscale, 2012, 4, 7540.	2.8	6
151	Toward Synthesis and Characterization of Unconventional C ₆₆ and C ₆₈ Fullerenes inside Carbon Nanotubes. Journal of Physical Chemistry C, 2014, 118, 30260-30268.	1.5	6
152	Silaffin-Inspired Peptide Assemblies Template Silica Particles with Variable Morphologies. ChemNanoMat, 2018, 4, 1209-1213.	1.5	6
153	Porosity at Different Structural Levels in Human and Yak Belly Hair and Its Effect on Hair Dyeing. Molecules, 2020, 25, 2143.	1.7	6
154	FT-Raman characterization of the antipodal bis-adduct of C ₆₀ and anthracene. Physica Status Solidi (B): Basic Research, 2009, 246, 2794-2797.	0.7	5
155	Ferromagnetic decoration in metal-semiconductor separated and ferrocene functionalized single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 2323-2327.	0.7	5
156	Irreversible thermochromism in copper chloride Imidazolium Nanoparticle Networks. Physical Chemistry Chemical Physics, 2013, 15, 12717.	1.3	5
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