

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	Grasping the Lithium hype: Insights into modern dental Lithium Silicate glass-ceramics. <i>Dental Materials</i> , 2022, 38, 318-332.	1.6	54
2	Green hydrothermal synthesis yields perylenebisimide- SiO_2 hybrid materials with solution-like fluorescence and photoredox activity. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12817-12831.	5.2	2
3	Controlling the Formation of Sodium/Black Phosphorus Intercalation Compounds Towards High Sodium Content. <i>Batteries and Supercaps</i> , 2021, 4, 1304-1309.	2.4	3
4	Influence of DVB as linker molecule on the micropore formation in polymer-derived SiCN ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 3292-3302.	2.8	13
5	Relationships between fracture toughness, Y_2O_3 fraction and phases content in modern dental Yttria-doped zirconias. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7771-7782.	2.8	19
6	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
7	Toughening by revitrification of Li_2SiO_3 crystals in Obsidian [®] dental glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104739.	1.5	8
8	Carbon Nano-onions: Potassium Intercalation and Reductive Covalent Functionalization. <i>Journal of the American Chemical Society</i> , 2021, 143, 18997-19007.	6.6	15
9	Ageing bone fractures: The case of a ductile to brittle transition that shifts with age. <i>Bone</i> , 2020, 131, 115176.	1.4	18
10	Epoxy Resin Nanocomposites: The Influence of Interface Modification on the Dispersion Structure – A Small-Angle-X-ray-Scattering Study. <i>Surfaces</i> , 2020, 3, 664-682.	1.0	14
11	Porosity at Different Structural Levels in Human and Yak Belly Hair and Its Effect on Hair Dyeing. <i>Molecules</i> , 2020, 25, 2143.	1.7	6
12	Surface-Active Ionic Liquids in Catalytic Water Splitting. <i>Australian Journal of Chemistry</i> , 2019, 72, 34.	0.5	10
13	Gitteröffnung durch reduktive kovalente Volumenfunktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019, 131, 5820-5826.	1.6	12
14	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 5763-5768.	7.2	60
15	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. <i>Nanoscale</i> , 2019, 11, 10615-10621.	2.8	19
16	Crystalline meso-/macroporous magnesium oxide prepared by a nanocasting route. <i>Journal of Supercritical Fluids</i> , 2019, 152, 104549.	1.6	3
17	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
18	Ni_2 - Fe_3 cyanometallate structures covalently embedded in silica: Influence of the blocking ligand at Ni_2 . <i>Inorganica Chimica Acta</i> , 2019, 487, 456-464.	1.2	1

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19	Hamilton Receptor-Mediated Self-Assembly of Orthogonally Functionalized Au and TiO ₂ Nanoparticles. <i>Helvetica Chimica Acta</i> , 2019, 102, e1900015.	1.0	5
20	Ovalbumin Epitope SIINFEKL Self-Assembles into a Supramolecular Hydrogel. <i>Scientific Reports</i> , 2019, 9, 2696.	1.6	9
21	Pitfalls of determining the elastic properties of stabilized zirconia with indentation methods. <i>Ceramics International</i> , 2019, 45, 9491-9496.	2.3	2
22	Fracture anisotropy in texturized lithium disilicate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018, 481, 457-469.	1.5	39
23	Calcium Doping Facilitates Water Dissociation in Magnesium Oxide. <i>Advanced Sustainable Systems</i> , 2018, 2, 1700096.	2.7	12
24	Cycle Stability and Hydration Behavior of Magnesium Oxide and Its Dependence on the Precursor-Related Particle Morphology. <i>Nanomaterials</i> , 2018, 8, 795.	1.9	19
25	Silaffin-Inspired Peptide Assemblies Template Silica Particles with Variable Morphologies. <i>ChemNanoMat</i> , 2018, 4, 1209-1213.	1.5	6
26	Thermochemical Energy Storage: Calcium Doping Facilitates Water Dissociation in Magnesium Oxide (<i>Adv. Sustainable Syst.</i> 1/2018). <i>Advanced Sustainable Systems</i> , 2018, 2, 1870004.	2.7	0
27	Chairside CAD/CAM materials. Part 1: Measurement of elastic constants and microstructural characterization. <i>Dental Materials</i> , 2017, 33, 84-98.	1.6	287
28	Doping of metal-organic frameworks towards resistive sensing. <i>Scientific Reports</i> , 2017, 7, 2439.	1.6	45
29	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017, 139, 5175-5182.	6.6	54
30	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017, 129, 15469-15475.	1.6	12
31	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15267-15273.	7.2	69
32	Asymmetric polysilazane-derived ceramic structures with multiscale porosity for membrane applications. <i>Microporous and Mesoporous Materials</i> , 2016, 232, 196-204.	2.2	22
33	Confined linear carbon chains as a route to bulk-carbyne. <i>Nature Materials</i> , 2016, 15, 634-639.	13.3	341
34	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , 2016, 105, 90-95.	5.4	15
35	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
36	Solvent-driven electron trapping and mass transport in reduced graphites to access perfect graphene. <i>Nature Communications</i> , 2016, 7, 12411.	5.8	53

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37	Hierarchically Mesostuctured Polyisobutylene-Based Ionic Liquids. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1175-1180.	2.0	4
38	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
39	Self-supporting hierarchically organized silicon networks via magnesiothermic reduction. <i>Monatshefte für Chemie</i> , 2016, 147, 269-278.	0.9	8
40	SAXS and in-situ SAXS to follow the structural evolution in hybrid materials. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1754, 3-11.	0.1	1
41	Nucleophilic substitution on silica surfaces: Comparison of the reactivity of α - versus γ -chlorosubstituted silanes in the reaction with sodium azide. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 764-769.	0.5	5
42	Nickel clusters embedded in carbon nanotubes as high performance magnets. <i>Scientific Reports</i> , 2015, 5, 15033.	1.6	23
43	Variation of the crosslinking density in cluster-reinforced polymers. <i>Materials Today Communications</i> , 2015, 5, 10-17.	0.9	13
44	Crystallization in segregated supramolecular pseudoblock copolymers. <i>European Polymer Journal</i> , 2015, 64, 138-146.	2.6	7
45	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
46	The formation of ZnO nanoparticles from zinc gluconate. <i>Ceramics International</i> , 2015, 41, 4975-4981.	2.3	7
47	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
48	Structural transformations of heat-treated bacterial iron oxide. <i>Materials Chemistry and Physics</i> , 2015, 155, 67-75.	2.0	12
49	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
50	Ordered meso-/macroporous silica and titania films by breath figure templating in combination with non-hydrolytic sol-gel processing. <i>Microporous and Mesoporous Materials</i> , 2015, 217, 233-243.	2.2	5
51	Formation of RuO ₂ nanoparticles by thermal decomposition of Ru(NO)(NO ₃) ₃ . <i>Ceramics International</i> , 2015, 41, 7811-7815.	2.3	16
52	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
53	Toward Synthesis and Characterization of Unconventional C ₆₆ and C ₆₈ Fullerenes inside Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 30260-30268.	1.5	6
54	Tailoring Photoluminescence Properties in Ionic Nanoparticle Networks. <i>Chemistry - A European Journal</i> , 2014, 20, 10763-10774.	1.7	4

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55	Porous titanium and zirconium oxo carboxylates at the interface between sol-gel and metal-organic framework structures. Dalton Transactions, 2014, 43, 950-957.	1.6	9
56	Effect of hot stretching graphitization on the structure and mechanical properties of rayon-based carbon fibers. Journal of Materials Science, 2014, 49, 673-684.	1.7	32
57	Covalent Embedding of Ni ²⁺ /Fe ³⁺ Cyanometallate Structures in Silica by Sol-Gel Processing. Chemistry - A European Journal, 2014, 20, 9212-9215.	1.7	3
58	SAXS studies on silica nanoparticle aggregation in a humid atmosphere. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	5
59	Hierarchically Organized Silica-Titania Monoliths Prepared under Purely Aqueous Conditions. Chemistry - A European Journal, 2014, 20, 17409-17419.	1.7	9
60	The structural evolution of multi-layer graphene stacks in carbon fibers under load at high temperature - A synchrotron radiation study. Carbon, 2014, 80, 373-381.	5.4	11
61	Characterizing the Cell Surface Structure and Antibody Recognition Forces on Intact Microbial Cells using Scanning Probe Microscopy. Biophysical Journal, 2014, 106, 511a-512a.	0.2	0
62	Development of a Liquid Formulation for Proteins for Long Time Storage. Biophysical Journal, 2014, 106, 618a.	0.2	0
63	Timescales of self-healing in human bone tissue and polymeric ionic liquids. Bioinspired, Biomimetic and Nanobiomaterials, 2014, 3, 123-130.	0.7	15
64	Irreversible thermochromism in copper chloride Imidazolium Nanoparticle Networks. Physical Chemistry Chemical Physics, 2013, 15, 12717.	1.3	5
65	Surface modification of MoS ₂ nanoparticles with ionic liquid-ligands: towards highly dispersed nanoparticles. Chemical Communications, 2013, 49, 9311.	2.2	26
66	Designing melt flow of poly(isobutylene)-based ionic liquids. Journal of Materials Chemistry A, 2013, 1, 12159.	5.2	19
67	Synthesis and Properties of Highly Dispersed Ionic Silica-Poly(ethylene oxide) Nanohybrids. ACS Nano, 2013, 7, 1265-1271.	7.3	41
68	Various Three-Dimensional Structures Connected by Al-O/OH/Acetate-Al Bonds. Inorganic Chemistry, 2013, 52, 13238-13243.	1.9	8
69	Small-Angle X-Ray Scattering for Imaging of Surface Layers on Intact Bacteria in the Native Environment. Journal of Bacteriology, 2013, 195, 2408-2414.	1.0	9
70	Characterizing the S-layer structure and anti-S-layer antibody recognition on intact <i>Tannerella forsythia</i> cells by scanning probe microscopy and small angle X-ray scattering. Journal of Molecular Recognition, 2013, 26, 542-549.	1.1	16
71	Tuning the Pore Size in Ionic Nanoparticle Networks. Journal of Nanoparticles, 2013, 2013, 1-9.	1.4	0
72	Structural flexibility of RNA as molecular basis for Hfq chaperone function. Nucleic Acids Research, 2012, 40, 8072-8084.	6.5	29

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73	Engineering molecular chains in carbon nanotubes. <i>Nanoscale</i> , 2012, 4, 7540.	2.8	6
74	Ferromagnetic decoration in metal-semiconductor separated and ferrocene functionalized single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2323-2327.	0.7	5
75	Hierarchically Nanostructured Polyisobutylene-Based Ionic Liquids. <i>Macromolecules</i> , 2012, 45, 2074-2084.	2.2	49
76	Nanoparticle Assemblies as Probes for Self-Assembled Monolayer Characterization: Correlation between Surface Functionalization and Agglomeration Behavior. <i>Langmuir</i> , 2012, 28, 741-750.	1.6	17
77	Novel Sol-Gel Precursors for Thin Mesoporous Eu ³⁺ -Doped Silica Coatings as Efficient Luminescent Materials.. <i>Chemistry of Materials</i> , 2012, 24, 3674-3683.	3.2	21
78	Sol-gel synthesis of ZnTiO ₃ using a single-source precursor based on p-carboxybenzaldehyde oxime as a linker. <i>Journal of Materials Chemistry</i> , 2012, 22, 24034.	6.7	18
79	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. <i>Polymer International</i> , 2012, 61, 274-285.	1.6	21
80	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
81	Porous Silica-Based Mixed Oxides with Basic Organic Sites. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5207-5215.	1.0	1
82	Liquid-phase syntheses of cobalt ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	30
83	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
84	Microcracks and Osteoclast Resorption Activity In Vitro. <i>Calcified Tissue International</i> , 2012, 90, 230-238.	1.5	17
85	Porous Titania Ionic Nanoparticle Networks. <i>Langmuir</i> , 2011, 27, 4110-4116.	1.6	9
86	Inorganic-organic hybrid materials through post-synthesis modification: Impact of the treatment with azides on the mesopore structure. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 486-498.	1.5	15
87	Atomistic Structure of Monomolecular Surface Layer Self-Assemblies: Toward Functionalized Nanostructures. <i>ACS Nano</i> , 2011, 5, 2288-2297.	7.3	26
88	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
89	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
90	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

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91	Studies on the Formation of CdS Nanoparticles from Solutions of (NMe ₄) ₄ [Cd ₁₀ S ₄ (SPh) ₁₆]. European Journal of Inorganic Chemistry, 2010, 2010, 2266-2275.	1.0	15
92	Supported and Free-Standing Sulfonic Acid Functionalized Mesostructured Silica Films with High Proton Conductivity. European Journal of Inorganic Chemistry, 2010, 2010, 3993-3999.	1.0	11
93	A new approach to control the dispersion of platinum nanoparticles in a metal oxide coating. Polyhedron, 2010, 29, 569-573.	1.0	2
94	Structural development of PAN-based carbon fibers studied by in situ X-ray scattering at high temperatures under load. Carbon, 2010, 48, 964-971.	5.4	61
95	Electron spin resonance from semiconductor-metal separated SWCNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2851-2854.	0.7	9
96	Raman response from double-wall carbon nanotubes based on metallicity selected host SWCNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2880-2883.	0.7	2
97	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
98	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
99	Controlling intermolecular spin interactions of La@C82 in empty fullerene matrices. Physical Chemistry Chemical Physics, 2010, 12, 1618.	1.3	17
100	Preparation of mesoporous titania by surfactant-assisted sol-gel processing of acetaldoxime-modified titanium alkoxides. Journal of Non-Crystalline Solids, 2010, 356, 1217-1227.	1.5	30
101	Keratin homogeneity in the tail feathers of Pavo cristatus and Pavo cristatus mut. alba. Journal of Structural Biology, 2010, 172, 270-275.	1.3	21
102	Structural Characterization of Gel-Derived Calcium Silicate Systems. Journal of Physical Chemistry A, 2010, 114, 10403-10411.	1.1	87
103	Sol-Gel Processing of a Glycolated Cyclic Organosilane and Its Pyrolysis to Silicon Oxycarbide Monoliths with Multiscale Porosity and Large Surface Areas. Chemistry of Materials, 2010, 22, 1509-1520.	3.2	46
104	Anion metathesis in ionic silicananoparticle networks. Journal of Materials Chemistry, 2010, 20, 1269-1276.	6.7	25
105	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
106	Efficient Air-Stable Organometallic Low-Molecular-Mass Gelators for Ionic Liquids: Synthesis, Aggregation and Application of Pyridine-Bridged Bis(benzimidazolylidene)-Palladium Complexes. Chemistry - A European Journal, 2009, 15, 1853-1861.	1.7	119
107	Organosilica Monoliths with Multiscale Porosity: Detailed Investigation of the Influence of the Surfactant on Structure Formation. Silicon, 2009, 1, 19-28.	1.8	11
108	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

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109	Identifying the electron spin resonance of conduction electrons in alkali doped SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2760-2763.	0.7	15
110	Structural Investigations on Hybrid Polymers Suitable as a Nanoparticle Precipitation Environment. <i>Chemistry of Materials</i> , 2009, 21, 695-705.	3.2	18
111	Nanoparticles/Ionic Linkers of Different Lengths: Short-Range Order Evidenced by Small-Angle X-ray Scattering. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6547-6552.	1.5	20
112	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
113	Crosslinked hybrid polymer matrices with nanostructure directing abilities for lanthanum hydroxide growth. <i>Chemical Communications</i> , 2009, , 5564.	2.2	2
114	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
115	The structure of carbon fibres. , 2009, , 353-377.		6
116	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
117	Polyarene-Functionalized Fullerenes in Carbon Nanotubes: Towards Controlled Geometry of Molecular Chains. <i>Small</i> , 2008, 4, 2262-2270.	5.2	21
118	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
119	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
120	Mesoporous dendrimer silica monoliths studied by small-angle X-ray scattering. <i>Journal of Materials Chemistry</i> , 2008, 18, 4783.	6.7	11
121	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
122	Nanostructure of Gel-Derived Aluminosilicate Materials. <i>Langmuir</i> , 2008, 24, 949-956.	1.6	12
123	Inhomogeneity of C^{13} isotope distribution in isotope engineered carbon nanotubes: Experiment and theory. <i>Physical Review B</i> , 2007, 75, .	1.1	21
124	Structural investigation of alumina silica mixed oxide gels prepared from organically modified precursors. <i>Journal of Non-Crystalline Solids</i> , 2007, 353, 1635-1644.	1.5	17
125	Dynamics of Carbon Nanotube Growth from Fullerenes. <i>Nano Letters</i> , 2007, 7, 2428-2434.	4.5	72
126	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

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127	Suppression of Craze in Polystyrene Crosslinked with a Multifunctional Zirconium Oxo Cluster Observed In Situ during Tensile Tests. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2145-2150.	2.0	4
128	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
129	Skin-core structure and bimodal Weibull distribution of the strength of carbon fibers. <i>Carbon</i> , 2007, 45, 2801-2805.	5.4	60
130	The dependence of the elastic moduli of reaction bonded alumina on porosity. <i>Journal of the European Ceramic Society</i> , 2007, 27, 35-39.	2.8	13
131	Growth mechanisms of inner-shell tubes in double-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4097-4101.	0.7	6
132	The effects of inhomogeneous isotope distribution on the vibrational properties of isotope enriched double walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4257-4260.	0.7	0
133	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
134	Ring-opening metathesis polymerizations with norbornene carboxylate-substituted metal oxo clusters. <i>Journal of Materials Chemistry</i> , 2006, 16, 3268.	6.7	44
135	Changing poisson's ratio of mesoporous silica monoliths with high temperature treatment. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 5251-5256.	1.5	6
136	Facile Self-Assembly Processes to Phenylene-Bridged Silica Monoliths with Four Levels of Hierarchy. <i>Small</i> , 2006, 2, 503-506.	5.2	56
137	From brittle to ductile fracture of bone. <i>Nature Materials</i> , 2006, 5, 52-55.	13.3	411
138	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
139	Structural investigation of carbon/carbon composites by neutron scattering. <i>Physica B: Condensed Matter</i> , 2006, 385-386, 538-541.	1.3	2
140	Orientation dependent fracture toughness of lamellar bone. <i>International Journal of Fracture</i> , 2006, 139, 395-405.	1.1	34
141	Small-Angle X-Ray Scattering to Characterize Nanostructures in Inorganic and Hybrid Materials Chemistry. <i>Monatshefte für Chemie</i> , 2006, 137, 529-543.	0.9	42
142	Determination of Elastic Modules in Dependence on Orientation by the Resonant Beam Technique. <i>Materials Science Forum</i> , 2006, 514-516, 815-824.	0.3	0
143	Extension of the resonant beam technique to highly anisotropic materials. <i>Journal of Sound and Vibration</i> , 2005, 279, 1121-1129.	2.1	7
144	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

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145	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
146	Structure of Post-Creep Carbon Fibres. <i>Key Engineering Materials</i> , 2005, 290, 268-271.	0.4	0
147	Direct Observation of Nanocrystallite Buckling in Carbon Fibers under Bending Load. <i>Physical Review Letters</i> , 2005, 95, 225501.	2.9	69
148	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
149	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
150	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
151	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.	3.2	48
152	Size independence of the strength of snow. <i>Physical Review E</i> , 2004, 69, 011306.	0.8	12
153	Small-angle X-ray scattering investigation of the cluster distribution in inorganic-organic hybrid polymers prepared from organically substituted metal oxide clusters. <i>Comptes Rendus Chimie</i> , 2004, 7, 495-502.	0.2	15
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