

Herwig Peterlik

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

200
papers

5,537
citations

39
h-index

68
g-index

209
ext. papers

6,073
ext. citations

5.4
avg, IF

5.5
L-index

#	Paper	IF	Citations
200	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	10.4	381
199	From brittle to ductile fracture of bone. <i>Nature Materials</i> , 2006 , 5, 52-5	27	356
198	Confined linear carbon chains as a route to bulk β -carbyne. <i>Nature Materials</i> , 2016 , 15, 634-9	27	250
197	Determination of SWCNT diameters from the Raman response of the radial breathing mode. <i>European Physical Journal B</i> , 2001 , 22, 307-320	1.2	231
196	Chairside CAD/CAM materials. Part 1: Measurement of elastic constants and microstructural characterization. <i>Dental Materials</i> , 2017 , 33, 84-98	5.7	190
195	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, 6368-71	16.4	180
194	Glycol-Modified Silanes in the Synthesis of Mesoscopically Organized Silica Monoliths with Hierarchical Porosity. <i>Chemistry of Materials</i> , 2005 , 17, 4262-4271	9.6	125
193	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, 1853-61	4.8	115
192	Age- and genotype-dependence of bone material properties in the osteogenesis imperfecta murine model (oim). <i>Bone</i> , 2001 , 29, 453-7	4.7	112
191	Low temperature fullerene encapsulation in single wall carbon nanotubes: synthesis of N@C60@SWCNT. <i>Chemical Physics Letters</i> , 2004 , 383, 362-367	2.5	109
190	Precise determination of graphene functionalization by in situ Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 15192	17.4	105
189	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	2.5	105
188	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	9.6	88
187	Periodically Mesostructured Silica Monoliths from Diol-Modified Silanes. <i>Chemistry of Materials</i> , 2003 , 15, 2690-2692	9.6	79
186	Texture of PAN- and pitch-based carbon fibers. <i>Carbon</i> , 2002 , 40, 551-555	10.4	78
185	Pyridine-bridged benzimidazolium salts: synthesis, aggregation, and application as phase-transfer catalysts. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7127-31	16.4	74
184	Dynamics of carbon nanotube growth from fullerenes. <i>Nano Letters</i> , 2007 , 7, 2428-34	11.5	67

183	Elastic moduli of nanocrystallites in carbon fibers measured by in-situ X-ray microbeam diffraction. <i>Carbon</i> , 2003 , 41, 563-570	10.4	67
182	Structural characterization of gel-derived calcium silicate systems. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 10403-11	2.8	66
181	A dual crosslinked self-healing system: Supramolecular and covalent network formation of four-arm star polymers. <i>Polymer</i> , 2015 , 69, 264-273	3.9	61
180	Coating of Carbon Fibers—The Strength of the Fibers. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 133-136	3.8	59
179	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, 13375-84	3.6	59
178	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	10.4	56
177	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	2.5	56
176	Direct observation of nanocrystallite buckling in carbon fibers under bending load. <i>Physical Review Letters</i> , 2005 , 95, 225501	7.4	54
175	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15267-15273	16.4	53
174	Facile self-assembly processes to phenylene-bridged silica monoliths with four levels of hierarchy. <i>Small</i> , 2006 , 2, 503-6	11	53
173	Skin-core structure and bimodal Weibull distribution of the strength of carbon fibers. <i>Carbon</i> , 2007 , 45, 2801-2805	10.4	50
172	Ein luftstabiler metallorganischer niedermolekularer Gelbildner: Synthese, Aggregation und katalytische Anwendung eines Palladium-Pinzettenkomplexes. <i>Angewandte Chemie</i> , 2007 , 119, 6486-6490	3.6	49
171	Unifying Principles of the Reductive Covalent Graphene Functionalization. <i>Journal of the American Chemical Society</i> , 2017 , 139, 5175-5182	16.4	48
170	Hierarchically Nanostructured Polyisobutylene-Based Ionic Liquids. <i>Macromolecules</i> , 2012 , 45, 2074-2084	5.5	47
169	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		47
168	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	1.7	47
167	Simultaneous drying and chemical modification of hierarchically organized silica monoliths with organofunctional silanes. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3896		46
166	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	9.6	46

165	Solvent-driven electron trapping and mass transport in reduced graphites to access perfect graphene. <i>Nature Communications</i> , 2016 , 7, 12411	17.4	45
164	Lattice Opening upon Bulk Reductive Covalent Functionalization of Black Phosphorus. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5763-5768	16.4	42
163	Fullerene release from the inside of carbon nanotubes: A possible route toward drug delivery. <i>Chemical Physics Letters</i> , 2007 , 445, 288-292	2.5	42
162	Sol-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 ^{9.6}	9.6	40
161	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		38
160	The validity of Weibull estimators. <i>Journal of Materials Science</i> , 1995 , 30, 1972-1976	4.3	38
159	Ring-opening metathesis polymerizations with norbornene carboxylate-substituted metal oxo clusters. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3268		37
158	Small-Angle X-Ray Scattering to Characterize Nanostructures in Inorganic and Hybrid Materials Chemistry. <i>Monatshefte für Chemie</i> , 2006 , 137, 529-543	1.4	37
157	Synthesis and properties of highly dispersed ionic silica-poly(ethylene oxide) nanohybrids. <i>ACS Nano</i> , 2013 , 7, 1265-71	16.7	36
156	Doping of metal-organic frameworks towards resistive sensing. <i>Scientific Reports</i> , 2017 , 7, 2439	4.9	34
155	Pore structure of carbon/carbon composites studied by small-angle X-ray scattering. <i>Carbon</i> , 1994 , 32, 939-945	10.4	34
154	Fracture anisotropy in texturized lithium disilicate glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 457-469	3.9	30
153	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	8.6	30
152	Orientation dependent fracture toughness of lamellar bone. <i>International Journal of Fracture</i> , 2006 , 139, 395-405	2.3	29
151	Bimodal strength distributions and flaw populations of ceramics and fibres. <i>Engineering Fracture Mechanics</i> , 2001 , 68, 253-261	4.2	29
150	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	3.8	28
149	Liquid-phase syntheses of cobalt ferrite nanoparticles. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 1	2.3	27
148	Preparation of mesoporous titania by surfactant-assisted sol-gel processing of acetaldoxime-modified titanium alkoxides. <i>Journal of Non-Crystalline Solids</i> , 2010 , 356, 1217-1227	3.9	27

147	Structural flexibility of RNA as molecular basis for Hfq chaperone function. <i>Nucleic Acids Research</i> , 2012 , 40, 8072-84	20.1	27
146	Atomistic structure of monomolecular surface layer self-assemblies: toward functionalized nanostructures. <i>ACS Nano</i> , 2011 , 5, 2288-97	16.7	26
145	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	4.3	25
144	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, 885-92	4.8	24
143	Anion metathesis in ionic silica nanoparticle networks. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1269-1276		24
142	Experimental validation of the shear correction factor. <i>Journal of Sound and Vibration</i> , 2003 , 261, 177-184	4.9	24
141	Prediction of strength of recrystallized siliconcarbide from pore size measurement Part I The bimodality of the distribution. <i>Journal of Materials Science</i> , 2000 , 35, 699-705	4.3	24
140	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	2.6	23
139	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	10.8	21
138	Effect of surface roughness on friction in fibre-bundle pull-out tests. <i>Composites Science and Technology</i> , 2005 , 65, 981-988	8.6	21
137	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	3.8	20
136	Inhomogeneity of C13 isotope distribution in isotope engineered carbon nanotubes: Experiment and theory. <i>Physical Review B</i> , 2007 , 75,	3.3	20
135	Investigation of microemulsion microstructure and its impact on skin delivery of flufenamic acid. <i>International Journal of Pharmaceutics</i> , 2015 , 490, 292-7	6.5	19
134	Surface modification of MoS ₂ nanoparticles with ionic liquid-ligands: towards highly dispersed nanoparticles. <i>Chemical Communications</i> , 2013 , 49, 9311-3	5.8	19
133	Designing melt flow of poly(isobutylene)-based ionic liquids. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12159	13	19
132	Keratin homogeneity in the tail feathers of Pavo cristatus and Pavo cristatus mut. alba. <i>Journal of Structural Biology</i> , 2010 , 172, 270-5	3.4	19
131	Polyarene-functionalized fullerenes in carbon nanotubes: towards controlled geometry of molecular chains. <i>Small</i> , 2008 , 4, 2262-70	11	19
130	Cross-sectional texture of carbon fibres analysed by scanning microbeam X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2001 , 34, 473-479	3.8	19

129	Asymmetric polysilazane-derived ceramic structures with multiscalar porosity for membrane applications. <i>Microporous and Mesoporous Materials</i> , 2016 , 232, 196-204	5.3	19
128	Novel sol-gel precursors for thin mesoporous eu(3+)-doped silica coatings as efficient luminescent materials. <i>Chemistry of Materials</i> , 2012 , 24, 3674-83	9.6	18
127	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	8.4	18
126	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		17
125	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	3.3	17
124	Surface layer protein characterization by small angle x-ray scattering and a fractal mean force concept: from protein structure to nanodisk assemblies. <i>Journal of Chemical Physics</i> , 2010 , 133, 175102	3.9	17
123	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, 758-64	2.4	17
122	Nickel clusters embedded in carbon nanotubes as high performance magnets. <i>Scientific Reports</i> , 2015 , 5, 15033	4.9	16
121	Photoluminescence as Complementary Evidence for Short-Range Order in Ionic Silica Nanoparticle Networks. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21342-21347	3.8	16
120	Structural investigation of alumina silica mixed oxide gels prepared from organically modified precursors. <i>Journal of Non-Crystalline Solids</i> , 2007 , 353, 1635-1644	3.9	16
119	Comparison of evaluation procedures for the subcritical crack growth parameter n. <i>Journal of the European Ceramic Society</i> , 1994 , 13, 509-519	6	16
118	Microcracks and osteoclast resorption activity in vitro. <i>Calcified Tissue International</i> , 2012 , 90, 230-8	3.9	15
117	Controlling intermolecular spin interactions of La@C(82) in empty fullerene matrices. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 1618-23	3.6	15
116	Identifying the electron spin resonance of conduction electrons in alkali doped SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2760-2763	1.3	15
115	Structural Investigations on Hybrid Polymers Suitable as a Nanoparticle Precipitation Environment. <i>Chemistry of Materials</i> , 2009 , 21, 695-705	9.6	15
114	Elastic moduli and interlaminar shear strength of a bidirectional carboncarbon composite after heat treatment. <i>Composites Science and Technology</i> , 1995 , 53, 7-12	8.6	15
113	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, 486-98	3	14
112	Small-angle X-ray scattering investigation of the cluster distribution in inorganicorganic hybrid polymers prepared from organically substituted metal oxide clusters. <i>Comptes Rendus Chimie</i> , 2004 , 7, 495-502	2.7	14

111	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , 2016 , 105, 90-95	10.4	14
110	Formation of RuO ₂ nanoparticles by thermal decomposition of Ru(NO)(NO ₃) ₃ . <i>Ceramics International</i> , 2015 , 41, 7811-7815	5.1	13
109	Timescales of self-healing in human bone tissue and polymeric ionic liquids. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2014 , 3, 123-130	1.3	13
108	Nanoparticle assemblies as probes for self-assembled monolayer characterization: correlation between surface functionalization and agglomeration behavior. <i>Langmuir</i> , 2012 , 28, 741-50	4	13
107	Studies on the Formation of CdS Nanoparticles from Solutions of (NMe ₄) ₄ [Cd ₁₀ S ₄ (SPh) ₁₆]. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 2266-2275	2.3	13
106	The dependence of the elastic moduli of reaction bonded alumina on porosity. <i>Journal of the European Ceramic Society</i> , 2007 , 27, 35-39	6	13
105	Pyridin-verbrückte Benzimidazoliumsalze: Synthese, Aggregation und Anwendung als Phasentransferkatalysatoren. <i>Angewandte Chemie</i> , 2008 , 120, 7236-7240	3.6	13
104	Hutchinson's shear coefficient for anisotropic beams. <i>Journal of Sound and Vibration</i> , 2003 , 266, 207-216	3.9	13
103	Exploring the Formation of Black Phosphorus Intercalation Compounds with Alkali Metals. <i>Angewandte Chemie</i> , 2017 , 129, 15469-15475	3.6	12
102	Structural transformations of heat-treated bacterial iron oxide. <i>Materials Chemistry and Physics</i> , 2015 , 155, 67-75	4.4	12
101	A new fibre-bundle pull-out test to determine interface properties of a 2D-woven carbon/carbon composite. <i>Composites Science and Technology</i> , 2003 , 63, 653-660	8.6	12
100	Prediction of strength of recrystallized siliconcarbide from pore size measurement Part II The reliability of the prediction. <i>Journal of Materials Science</i> , 2000 , 35, 707-711	4.3	12
99	Calcium Doping Facilitates Water Dissociation in Magnesium Oxide. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700096	5.9	12
98	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	10.4	11
97	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. <i>Journal of Molecular Recognition</i> , 2013 , 26, 542-9	2.6	11
96	Mesoporous dendrimer silica monoliths studied by small-angle X-ray scattering. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4783		11
95	Size independence of the strength of snow. <i>Physical Review E</i> , 2004 , 69, 011306	2.4	11
94	Cycle Stability and Hydration Behavior of Magnesium Oxide and Its Dependence on the Precursor-Related Particle Morphology. <i>Nanomaterials</i> , 2018 , 8,	5.4	11

93	Gitteröffnung durch reduktive kovalente Volumen-Funktionalisierung von schwarzem Phosphor. <i>Angewandte Chemie</i> , 2019 , 131, 5820-5826	3.6	10
92	Variation of the crosslinking density in cluster-reinforced polymers. <i>Materials Today Communications</i> , 2015 , 5, 10-17	2.5	10
91	Organosilica Monoliths with Multiscale Porosity: Detailed Investigation of the Influence of the Surfactant on Structure Formation. <i>Silicon</i> , 2009 , 1, 19-28	2.4	10
90	Supported and Free-Standing Sulfonic Acid Functionalized Mesoporous Silica Films with High Proton Conductivity. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 3993-3999	2.3	10
89	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	5.5	10
88	Nanostructure of gel-derived aluminosilicate materials. <i>Langmuir</i> , 2008 , 24, 949-56	4	10
87	Exchange coupling in a frustrated trimetric molecular magnet reversed by a 1D nano-confinement. <i>Nanoscale</i> , 2019 , 11, 10615-10621	7.7	9
86	Organically modified mixed-oxide sol-gel films with complex compositions and pore structures. <i>Journal of Materials Chemistry</i> , 2009 , 19, 75-81		9
85	Electron spin resonance from semiconductor-metal separated SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2851-2854	1.3	9
84	A detailed comparison of CVD grown and precursor based DWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 1943-1946	1.3	9
83	Ageing bone fractures: The case of a ductile to brittle transition that shifts with age. <i>Bone</i> , 2020 , 131, 115176	4.7	9
82	Biphenyl-Bridged Organosilica as a Precursor for Mesoporous Silicon Oxycarbide and Its Application in Lithium and Sodium Ion Batteries. <i>Nanomaterials</i> , 2019 , 9,	5.4	8
81	Hierarchically organized silica-titania monoliths prepared under purely aqueous conditions. <i>Chemistry - A European Journal</i> , 2014 , 20, 17409-19	4.8	8
80	Small-angle X-ray scattering for imaging of surface layers on intact bacteria in the native environment. <i>Journal of Bacteriology</i> , 2013 , 195, 2408-14	3.5	8
79	Porous titania ionic nanoparticle networks. <i>Langmuir</i> , 2011 , 27, 4110-6	4	8
78	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, 250-5	4.2	8
77	Structure investigation of intelligent aerogels. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 392-393	2.8	8
76	Grasping the Lithium hype: Insights into modern dental Lithium Silicate glass-ceramics.. <i>Dental Materials</i> , 2021 ,	5.7	8

75	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	2.3	7
74	Self-supporting hierarchically organized silicon networks via magnesiothermic reduction. <i>Monatshefte Für Chemie</i> , 2016 , 147, 269-278	1.4	7
73	Surface-Active Ionic Liquids in Catalytic Water Splitting. <i>Australian Journal of Chemistry</i> , 2019 , 72, 34	1.2	7
72	Porous titanium and zirconium oxo carboxylates at the interface between sol-gel and metal-organic framework structures. <i>Dalton Transactions</i> , 2014 , 43, 950-7	4.3	7
71	Crystallization in segregated supramolecular pseudoblock copolymers. <i>European Polymer Journal</i> , 2015 , 64, 138-146	5.2	7
70	Batch-wise adsorption, saxs and microscopic studies of zeolite pelletized with biopolymeric alginate. <i>Brazilian Journal of Chemical Engineering</i> , 2011 , 28, 63-71	1.7	7
69	Uniformly oriented, ellipsoidal nanovoids in glass created by electric-field-assisted dissolution of metallic nanoparticles. <i>Physical Review B</i> , 2009 , 79,	3.3	7
68	Meso-scale mechanical testing methods for diamond composite materials. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010 , 28, 508-515	4.1	7
67	Elastic Moduli of Porous and Anisotropic Composites at High Temperatures. <i>Advanced Engineering Materials</i> , 2004 , 6, 138-142	3.5	7
66	Relationship of Strength and Defects of Ceramic Materials and Their Treatment by Weibull Theory.. <i>Journal of the Ceramic Society of Japan</i> , 2001 , 109, S121-S126		7
65	Toward Synthesis and Characterization of Unconventional C66 and C68 Fullerenes inside Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 30260-30268	3.8	6
64	Polyester Preparation in the Presence of Pristine and Phosphonic-Acid-Modified Zirconia Nanopowders. <i>Macromolecular Materials and Engineering</i> , 2012 , 297, 219-227	3.9	6
63	Titanium alkoxo oximates, with surfactant-like properties of the oximate ligands, as precursors for porous TiO ₂ and mixed oxide sol-gel films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 5527		6
62	Growth mechanisms of inner-shell tubes in double-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4097-4101	1.3	6
61	Changing poisson's ratio of mesoporous silica monoliths with high temperature treatment. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5251-5256	3.9	6
60	Extension of the resonant beam technique to highly anisotropic materials. <i>Journal of Sound and Vibration</i> , 2005 , 279, 1121-1129	3.9	6
59	Transverse expansion of 2-D carbon/carbon laminates as a consequence of delamination. <i>Composites Science and Technology</i> , 1992 , 45, 65-72	8.6	6
58	Hamilton Receptor-Mediated Self-Assembly of Orthogonally Functionalized Au and TiO ₂ Nanoparticles. <i>Helvetica Chimica Acta</i> , 2019 , 102, e1900015	2	5

57	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	5.3	5
56	SAXS studies on silica nanoparticle aggregation in a humid atmosphere. <i>Journal of Nanoparticle Research</i> , 2014 , 16, 1	2.3	5
55	Irreversible thermochromism in copper chloride Imidazolium Nanoparticle Networks. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12717-23	3.6	5
54	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	1	5
53	The formation of ZnO nanoparticles from zinc gluconate. <i>Ceramics International</i> , 2015 , 41, 4975-4981	5.1	5
52	Various three-dimensional structures connected by Al-O/OH/acetate-Al bonds. <i>Inorganic Chemistry</i> , 2013 , 52, 13238-43	5.1	5
51	FT-Raman characterization of the antipodal bis-adduct of C60 and anthracene. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2794-2797	1.3	5
50	Viscoelastic effects in testing of an Al ₂ O ₃ ceramic containing a glassy phase. <i>Journal of Materials Science</i> , 1993 , 28, 4341-4346	4.3	5
49	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	2.9	4
48	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	1.3	4
47	The structure of carbon fibres 2009 , 353-377		4
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