Andrzej Burian

List of Publications by Year
in descending order

61	1,426	361296	345118
papers	citations	20 h-index	36 g-index

61	61	61	1616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomistic origin of nano-silver paracrystalline structure: molecular dynamics and x-ray diffraction studies. Journal of Physics Condensed Matter, 2022, 34, 375401.	0.7	0
2	Structure of 1,6-anhydro-Î²-<scp>D</scp>-glucopyranose in plastic crystal, orientational glass, liquid and ordinary glass forms: molecular modeling and X-ray diffraction studies. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 138-149.	0.5	2
3	The glass-like structure of ironâ€“nickel nanochains produced by the magnetic-field-induced reduction reaction with sodium borohydride. Physical Chemistry Chemical Physics, 2021, 24, 326-335.	1.3	1
4	The structure of gold nanoparticles: molecular dynamics modeling and its verification by X-ray diffraction. Journal of Applied Crystallography, 2020, 53, 1-8.	1.9	13
5	Atomic-scale molecular models of oxidized activated carbon fibre nanoregions: Examining the effects of oxygen functionalities on wet formaldehyde adsorption. Carbon, 2020, 165, 67-81.	5.4	19
6	Nonlinear THz Spectroscopy User Facility at ELI-ALPS. , 2020, , .		1
7	Structural studies of carbons by neutron and x-ray scattering. Reports on Progress in Physics, 2019, 82, 016501.	8.1	15
8	Paracrystalline structure of gold, silver, palladium and platinum nanoparticles. Journal of Applied Crystallography, 2018, 51, 411-419.	1.9	12
9	Evolution of glassy carbon under heat treatment: correlation structureâ€“mechanical properties. Journal of Materials Science, 2018, 53, 3509-3523.	1.7	111
10	Structure of Carbon Materials Explored by Local Transmission Electron Microscopy and Global Powder Diffraction Probes. Journal of Carbon Research, 2018, 4, 68.	1.4	63
11	Modelling of glass-like carbon structure and its experimental verification by neutron and X-ray diffraction. Journal of Applied Crystallography, 2017, 50, 36-48.	1.9	46
12	The atomic scale structure of saccharose-based carbons. Philosophical Magazine, 2017, 97, 1675-1697.	0.7	7
13	The atomic scale structure of dahlia-like single wall carbon nanohorns produced by direct vaporization of graphite. Diamond and Related Materials, 2017, 72, 26-31.	1.8	6
14	The dielectric signature of glass density. Applied Physics Letters, 2017, 111, .	1.5	12
15	Interplay between the static ordering and dynamical heterogeneities determining the dynamics of rotation and ordinary liquid phases in 1,6-anhydro-Î²-D-glucose. Scientific Reports, 2017, 7, 42103.	1.6	9
16	Morphologically disordered pore model for characterization of micro-mesoporous carbons. Carbon, 2017, 111, 358-370.	5.4	25
17	Paracrystalline Structure of Glassâ€Like Carbons. International Journal of Applied Glass Science, 2016, 7, 355-363.	1.0	9
18	The atomic scale structure of glass-like carbon obtained from fullerene extract via spark plasma sintering. Carbon, 2016, 110, 172-179.	5.4	6

#	Article	IF	Citations
19	The atomic scale structure of graphene powder studied by neutron and X-ray diffraction. Journal of Applied Crystallography, 2015, 48, 1429-1436.	1.9	18
20	Conversion of Natural Tannin to Hydrothermal and Graphene-Like Carbons Studied by Wide-Angle X-ray Scattering. Journal of Physical Chemistry A, 2015, 119, 8692-8701.	1.1	22
21	Features of the integration of graphenes in microelectronic technology. Russian Microelectronics, 2014, 43, 477-482.	0.1	1
22	Carbon Molecular Sieves: Reconstruction of Atomistic Structural Models with Experimental Constraints. Journal of Physical Chemistry C, 2014, 118, 12996-13007.	1.5	21
23	Structure, Properties, and Crystallization of Mg-Cu-Y-Zn Bulk Metallic Glasses. Journal of Materials Engineering and Performance, 2014, 23, 2241-2246.	1.2	16
24	The atomic scale structure of nanographene platelets studied by X-ray diffraction, high-resolution transmission electron microscopy and molecular dynamics. Diamond and Related Materials, 2013, 35, 40-46.	1.8	17
25	Structural Modeling of Dahlia-Type Single-Walled Carbon Nanohorn Aggregates by Molecular Dynamics. Journal of Physical Chemistry A, 2013, 117, 9057-9061.	1.1	17
26	The atomic scale structure of CXV carbon: wide-angle x-ray scattering and modeling studies. Journal of Physics Condensed Matter, 2013, 25, 454203.	0.7	8
27	Graphene-like structure of activated anthracites. Journal of Physics Condensed Matter, 2012, 24, 495303.	0.7	5
28	Wide-angle X-ray scattering as a quality test for carbon nanotubes. Diamond and Related Materials, 2012, 29, 18-22.	1.8	9
29	Transformation of nano-diamonds to carbon nano-onions studied by X-ray diffraction and molecular dynamics. Diamond and Related Materials, 2011, 20, 1333-1339.	1.8	33
30	A pulsed neutron diffraction study of the topological defects presence in carbon nanohorns. Chemical Physics Letters, 2011, 502, 87-91.	1.2	21
31	Molecular dynamics study of structure and graphitization process of nanodiamonds. Journal of Molecular Structure, 2008, 887, 34-40.	1.8	28
32	Structural studies of nanodiamond by high-energy X-ray diffraction. Diamond and Related Materials, 2008, 17, 1186-1193.	1.8	29
33	Fullerene-like structure of activated carbons. Diamond and Related Materials, 2008, 17, 1633-1638.	1.8	27
34	Structural studies of disordered carbons by high-energy X-ray diffraction. Philosophical Magazine, 2007, 87, 4973-4986.	0.7	24
35	Application of Molecular Dynamics Simulations for Structural Studies of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2007, 7, 1505-1511.	0.9	16
36	Structural studies of carbon nanotubes obtained by template deposition using high-energy X-ray scattering. Diamond and Related Materials, 2006, 15, 1036-1040.	1.8	6

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37	Graphitization of small diamond cluster â€" Molecular dynamics simulation. Diamond and Related Materials, 2006, 15, 1818-1821.	1.8	36
38	Energy relaxation and pulsed neutrons diffraction studies of carbon nanotubes. Diamond and Related Materials, 2006, 15, 1090-1093.	1.8	2
39	Molecular dynamics simulation of carbon nanotube structure. Journal of Molecular Structure, 2006, 792-793, 78-81.	1.8	10
40	Structural studies of oriented carbon nanotubes in alumina channels using high energy X-ray diffraction. Carbon, 2005, 43, 2723-2729.	5.4	16
41	Application of image plate for structural studies of carbon nanotubes by high-energy X-ray diffraction. Journal of Alloys and Compounds, 2005, 401, 51-54.	2.8	20
42	Complementary studies of structural characteristics for carbon materials with X-rays and neutrons. Journal of Alloys and Compounds, 2005, 401, 18-23.	2.8	8
43	Modelling studies of carbon nanotubesâ€"Comparison of simulations and X-ray diffraction data. Journal of Alloys and Compounds, 2005, 401, 46-50.	2.8	15
44	Radial distribution function analysis of spatial atomic correlations in carbon nanotubes. Diamond and Related Materials, 2004, 13, 1261-1265.	1.8	22
45	Computation of powder diffraction patterns for carbon nanotubes. Journal of Alloys and Compounds, 2004, 382, 123-127.	2.8	13
46	Model-based computation of powder diffraction patterns for carbon nanotubes. Diamond and Related Materials, 2004, 13, 1218-1221.	1.8	11
47	Diamond nanoparticles to carbon onions transformation: X-ray diffraction studies. Carbon, 2002, 40, 1469-1474.	5.4	184
48	Application of Third Generation Synchrotron Source to Studies of Non-Crystalline Materials: In-Se Amorphous Films. Acta Physica Polonica A, 2002, 101, 701-708.	0.2	2
49	Curved Surfaces in Disordered Carbons by High Energy X-ray Scattering. Acta Physica Polonica A, 2002, 101, 751-759.	0.2	6
50	Characterization of spatial correlations in carbon nanotubes-modelling studies. Journal of Alloys and Compounds, 2001, 328, 222-225.	2.8	45
51	Modelling studies of amorphous Inâ€"Se films. Journal of Alloys and Compounds, 2001, 328, 214-217.	2.8	13
52	Radial distribution function analysis of the graphitization process in carbon materials. Journal of Alloys and Compounds, 2001, 328, 231-236.	2.8	24
53	Paracrystalline structure of activated carbons. Journal of Physics Condensed Matter, 2001, 13, 5545-5561.	0.7	27
54	Raman scattering studies of the graphitization process in anthracene- and saccharose-based carbons. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2001, 81, 525-540.	0.6	14

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55	Short range ordering in amorphous In-Se films by wide-angle X-ray scattering. Journal of Materials Science, 2000, 35, 3121-3126.	1.7	16
56	High-resolution electron microscopy of a microporous carbon. Philosophical Magazine Letters, 2000, 80, 381-386.	0.5	108
57	Does Carbon Prefer Flat or Curved Surfaces?. Acta Physica Polonica A, 2000, 98, 457-468.	0.2	18
58	Structural Studies of Carbon Nanotubes and Related Materials by Neutron and X-Ray Diffraction. Acta Physica Polonica A, 2000, 98, 495-504.	0.2	12
59	Radial Distribution Function Analysis of Carbon Nanotubes. Acta Physica Polonica A, 2000, 98, 611-617.	0.2	9
60	Structural studies of multiwall carbon nanotubes by neutron diffraction. Physical Review B, 1999, 59, 1665-1668.	1.1	68
61	Radial distribution function analysis of the structure of activated carbons. Carbon, 1998, 36, 1613-1621.	5.4	52