Radoslaw Zaleski

List of Publications by Year
in descending order

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95 papers	997 citations	471061 17 h-index	580395 25 g-index
95 all docs	95 docs citations	95 times ranked	670 citing authors

#	Article	IF	Citations
1	Evaluation of Single-Chip, Real-Time Tomographic Data Processing on FPGA SoC Devices. IEEE Transactions on Medical Imaging, 2018, 37, 2526-2535.	5.4	57
2	Synthesis and characterization of nanostructural polymerâ€“silica composite: Positron annihilation lifetime spectroscopy study. Journal of Colloid and Interface Science, 2011, 358, 268-276.	5.0	43
3	Temperature, pressure and source-irradiation effects in positronium formation in some solid long-chain alkanes. Chemical Physics, 2003, 295, 243-253.	0.9	33
4	Positron Lifetime in Mesoporous Silica of MCM-41 Type. Langmuir, 2003, 19, 2599-2605.	1.6	33
5	Positron annihilation and N2 adsorption for nanopore determination in silica-polymer composites. RSC Advances, 2012, 2, 3729.	1.7	33
6	On possible deviations of experimental PALS data from positronium pick-off model estimates. Chemical Physics, 2002, 280, 295-307.	0.9	32
7	Pick-off models in the studies of mesoporous silica MCM-41. Comparison of various methods of the PAL spectra analysis. Radiation Physics and Chemistry, 2007, 76, 243-247.	1.4	30
8	Porosity evolution of VP-DVB/MCM-41 nanocomposite. Journal of Colloid and Interface Science, 2010, 343, 134-140.	5.0	26
9	Vacuum removal of the template in MCM-41 silica studied by the positron annihilation method. Journal of Colloid and Interface Science, 2003, 262, 466-473.	5.0	25
10	Determination of the $3gamma $ Fraction from Positron Annihilation in Mesoporous Materials for Symmetry Violation Experiment with J-PET Scanner. Acta Physica Polonica B, 2016, 47, 453.	0.3	25
11	Porosity of polymer materials by various techniques. Journal of Porous Materials, 2009, 16, 691-698.	1.3	23
12	Macro- and Nanoscopic Studies of Porous Polymer Swelling. Macromolecules, 2017, 50, 5080-5089.	2.2	23
13	n-Heptane adsorption and desorption on porous silica observed by positron annihilation lifetime spectroscopy. Microporous and Mesoporous Materials, 2012, 154, 142-147.	2.2	22
14	Polymerâ€“mesoporous silica composites for drug release systems. Microporous and Mesoporous Materials, 2020, 294, 109881.	2.2	22
15	Composition of pore surface investigated by positron annihilation lifetime spectroscopy. Microporous and Mesoporous Materials, 2012, 163, 276-281.	2.2	20
16	Principles of positron porosimetry. Nukleonika, 2015, 60, 795-800.	0.3	20
17	Positron Probing of Liquid-free Volume To Investigate Adsorptionâ€“Desorption Behavior of Water in Two-Dimensional Mesoporous SBA-3. Journal of Physical Chemistry C, 2017, 121, 17251-17262.	1.5	19
18	Temperature changes of the template structure in MCM-41 type materials; positron annihilation studies. Microporous and Mesoporous Materials, 2003, 62, 47-60.	2.2	18

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19	n-Heptane adsorption in periodic mesoporous silica by in situ positron annihilation lifetime spectroscopy. Microporous and Mesoporous Materials, 2013, 179, 104-110.	2.2	17
20	Positron insight into evolution of pore volume and penetration of the polymer network by n-heptane molecules in mesoporous XAD4. Physical Chemistry Chemical Physics, 2017, 19, 10009-10019.	1.3	17
21	Measurement and Analysis of the Positron Annihilation Lifetime Spectra for Mesoporous Silica. Acta Physica Polonica A, 2006, 110, 729-738.	0.2	17
22	Positron annihilation study of aluminum, titanium, and iron alloys surface after shot peening. Applied Physics A: Materials Science and Processing, 2015, 120, 551-559.	1.1	16
23	Template transformations in preparation of MCM-41 silica. Journal of Thermal Analysis and Calorimetry, 2005, 79, 555-560.	2.0	15
24	Positronium lifetime in porous VPï¿½ï¿½ï¿½DVB copolymer. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2445-2447.	0.8	15
25	Positron probing of the micellar template interior in MCM-41. Chemical Physics Letters, 2003, 372, 794-799.	1.2	14
26	Positronium in high temperature phases of long-chain even n-alkanes. Chemical Physics, 2009, 355, 123-129.	0.9	14
27	Free volumes evolution during desorption of n-heptane from silica with regular pore geometry. Positron annihilation study. Applied Surface Science, 2010, 256, 5316-5322.	3.1	13
28	Nanostructured polymerâ€“titanium composites and titanium oxide through polymer swelling in titania precursor. Colloid and Polymer Science, 2013, 291, 1463-1470.	1.0	13
29	Spin probe dynamics in relation to free volume in crystalline organics by means of ESR and PALS: n-Hexadecane. Physica B: Condensed Matter, 2013, 430, 99-105.	1.3	13
30	Solid-state dynamics and single-crystal to single-crystal structural transformations in octakis(3-chloropropyl)octasilsesquioxane and octavinyloctasilsesquioxane. Physical Chemistry Chemical Physics, 2017, 19, 27516-27529.	1.3	13
31	Influence of Atmospheric Gases Present in the Pores of MCM-41 on Lifetime of Ortho-Positronium. Materials Science Forum, 0, 666, 123-128.	0.3	12
32	Mechanical Stability of Porous Copolymers by Positron Annihilation Lifetime Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 11636-11645.	1.5	12
33	Positronium in solid phases of long-chain paraffins. Radiation Physics and Chemistry, 2007, 76, 185-188.	1.4	11
34	Testing the Extended Tao-Eldrup Model. Silica Gels Produced with Polymer Template. Acta Physica Polonica A, 2005, 107, 868-873.	0.2	11
35	Porosity of Ordered Silica Materials by Nitrogen Adsorption and Positronium Annihilation Lifetime Spectroscopy. Journal of Colloid and Interface Science, 2001, 243, 427-432.	5.0	10
36	Intermolecular free volumes and intramolecular defects inn-alkanes. Journal of Physics: Conference Series, 2011, 265, 012023.	0.3	10

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37	Amberlite XAD copolymers as an environment for silica deposition. Microporous and Mesoporous Materials, 2017, 237, 210-221.	2.2	10
38	Positronium Formation in Solid Long-Chain Alkanes. Acta Physica Polonica A, 2005, 107, 635-641.	0.2	10
39	Temperature dependence of o-Ps lifetime in some porous media. Deviations from ETE model. Chemical Physics Letters, 2006, 430, 351-354.	1.2	9
40	Positron irradiation effects in simple organic solids. Radiation Physics and Chemistry, 2008, 77, 1306-1310.	1.4	9
41	Positron porosimetry study of mesoporous polymerâ€“silica composites. Adsorption, 2016, 22, 745-754.	1.4	9
42	Catalyst Deactivation Probed by Positron Annihilation Spectroscopy. ACS Catalysis, 2021, 11, 14967-14976.	5.5	9
43	Enhancement of positronium formation by trapped electrons in solid n-nonadecane. Light bleaching effect. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 165-168.	0.9	8
44	<i>n</i>-Nonadecane Embedded in Mesopores. Materials Science Forum, 0, 607, 180-182.	0.3	8
45	What can positronium tell us about adsorption?. Adsorption, 2013, 19, 529-535.	1.4	8
46	Positron Porosimetry Studies of Template Removal from As-Synthesized MCM-41 Silica. Acta Physica Polonica A, 2008, 113, 1543-1550.	0.2	8
47	Positronium inhibition in naphthalene at high pressures. Chemical Physics Letters, 2004, 387, 433-435.	1.2	7
48	Negative compressibility of free volumes in argon intercalated n-nonadecane. Chemical Physics Letters, 2005, 402, 367-369.	1.2	7
49	Ortho-positronium localization in pores of Vycor glass at low temperature. Journal of Physics: Conference Series, 2013, 443, 012062.	0.3	7
50	Spin probe dynamics in relation to free volume in crystalline organics from ESR and PALS: N-tridecane. Physica B: Condensed Matter, 2015, 476, 100-108.	1.3	7
51	Electron density at positronâ€™s site in MCM-41 ordered silica. Chemical Physics Letters, 2003, 372, 800-804.	1.2	6
52	Odd-Even Differences in o-Ps Properties in Some Solid Long-Chain Alkanes. Materials Science Forum, 2004, 445-446, 298-300.	0.3	6
53	Observation of intramolecular defects in n-alkanes C25H52â€“C29H60 by the positron annihilation method. Chemical Physics Letters, 2004, 394, 90-92.	1.2	6
54	Thinning down of polymer matrix by entrapping silica nanoparticles. Colloid and Polymer Science, 2011, 289, 751-758.	1.0	6

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55	Positron Annihilation Lifetime Study of Steel Surface Modification by Shot Peening. Physics Procedia, 2012, 35, 92-97.	1.2	6
56	Positron annihilation studies of 4-n-butyl-4â€²-isothiocyanato-1,1â€²-biphenyl. Physical Review E, 2013, 88, 022504.	0.8	6
57	Positron Annihilation in Steel Burnished by Vibratory Shot Peening. Acta Physica Polonica A, 2006, 110, 739-746.	0.2	6
58	Analysis of Surface Properties of Nickel Alloy Elements Exposed to Impulse Shot Peening with the Use of Positron Annihilation. Materials, 2021, 14, 7328.	1.3	6
59	Positron studies of vapour absorption and desorption by melamineâ€“formaldehyde resin. Materials Chemistry and Physics, 2002, 76, 285-289.	2.0	5
60	Swelling of cross-linked polymers in silicones of different molecular weight. Polymer, 2019, 179, 121611.	1.8	5
61	Influence of different confining matrices on negative pressure in liquid n-heptane investigated using positronium bubbles as a probe. Journal of Colloid and Interface Science, 2020, 558, 259-268.	5.0	5
62	Positron lifetime spectroscopy of defect structures in Cd_{1â€“x}Zn_xTe mixed crystals grown by vertical Bridgmanâ€“Stockbarger method. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2021, 77, 515-525.	0.5	5
63	Impact of Impulse Shot Peening Parameters on Properties of Stainless Steel Surface. Acta Physica Polonica A, 2017, 132, 1611-1616.	0.2	5
64	Positronium in solid phases of n-pentacosane. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 333, 341-346.	0.9	4
65	Positronium annihilation study of as-synthesized MCM-41 silica under pressure. Studies in Surface Science and Catalysis, 2007, 160, 471-478.	1.5	4
66	Positron annihilation and phase transitions in argon intercalated n-nonadecane. Chemical Physics, 2007, 335, 1-6.	0.9	4
67	<i>In Situ </i>Monitoring of Adsorption and Desorption of <i>n</i>-Heptane on Porous Silica by Positron Annihilation Lifetime Spectroscopy. Materials Science Forum, 0, 733, 207-211.	0.3	4
68	Testing of the Extended Tao-Eldrup Model on Porous VP-DVB Copolymers. Materials Science Forum, 0, 733, 24-28.	0.3	4
69	ESR and PALS detection of the dynamic crossover in the supercooled liquid states of short and medium-sized n-alkanes. Chemical Physics Letters, 2018, 700, 102-107.	1.2	4
70	Three-Quantum Annihilation in Porous Vycor Glass. Acta Physica Polonica A, 2005, 107, 821-825.	0.2	4
71	Unraveling the Phase Behavior of Water Confined in Nanochannels through Positron Annihilation. Journal of Physical Chemistry C, 2022, 126, 5916-5926.	1.5	4
72	Temperature dependence of positronium lifetime in cylindrical pores. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3814-3818.	0.8	3

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73	Gas Pressure Induced Porosity of CYTOP Polymer. A~Positron Study. Acta Physica Polonica A, 2014, 125, 782-784.	0.2	3
74	N-heptane adsorption and desorption in mesoporous materials. Journal of Physics: Conference Series, 2015, 618, 012040.	0.3	3
75	Pressure Effects in ortho-Positronium Annihilation. Acta Physica Polonica A, 2005, 107, 608-614.	0.2	3
76	Formation of polysilsesquioxane network by vapor-phase method in the spatially limited system of cross-linked polymer pores. Polymer, 2018, 141, 202-212.	1.8	2
77	An experimental investigation of light emission produced in the process of positronium formation in matter. Physical Chemistry Chemical Physics, 2021, 23, 11264-11271.	1.3	2
78	Controlled Porosity of MCM-41 Obtained by Partial Blocking of Pores by Silicon Oil. Acta Physica Polonica A, 2017, 132, 1559-1564.	0.2	2
79	Ortho-Ps annihilation in resorcinol at high pressure. Radiation Physics and Chemistry, 2003, 68, 577-579.	1.4	1
80	Positron Study of MCM-41 Sieve Formation. Materials Science Forum, 2004, 445-446, 364-366.	0.3	1
81	Migration of siloxane polymer in ordered mesoporous MCM-41 silica channels. Studies in Surface Science and Catalysis, 2007, 160, 431-437.	1.5	1
82	Positronium in 1-tridecene. Chemical Physics, 2007, 342, 85-89.	0.9	1
83	Testing ETE model, temperature dependences of PALS data. Physica Status Solidi C: Current Topics in Solid State Physics, 2007, 4, 3985-3988.	0.8	1
84	Positronium in Normal Alkanes. Selected Problems. Materials Science Forum, 0, 666, 93-98.	0.3	1
85	Positron annihilation lifetime spectroscopy study of roller burnished magnesium alloy. Nukleonika, 2015, 60, 789-794.	0.3	1
86	Positron Annihilation Lifetime Spectroscopy Application to <i>In Situ</i> Monitoring of <i>n</i>-Heptane Sorption in Mesopores. Defect and Diffusion Forum, 0, 373, 288-294.	0.4	1
87	Positron study of adsorption of n-heptane in SBA-3. Adsorption, 2019, 25, 881-887.	1.4	1
88	Porosity of Silica Monoliths with Tailored Mesopores of Ink-Bottle Shape Determined by Nitrogen Adsorption and Positron Annihilation Lifetime Spectroscopy. Acta Physica Polonica A, 2017, 132, 1568-1572.	0.2	1
89	Ammonia vapor induced transformation of selected alkoxysilanes within artificial and natural polymer templates. Journal of Non-Crystalline Solids, 2022, 576, 121288.	1.5	1
90	Positronium Thermalization Process in Nanoporous Materials and its Influence on the Shape of PALS Spectrum. Materials Science Forum, 0, 607, 39-41.	0.3	0

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91	Positron Lifetime Annihilation Study of Porous Composites and Silicas Synthesized Using Polymer Templates. Defect and Diffusion Forum, 0, 373, 280-283.	0.4	0
92	Investigation of porous structure polymeric materials based on 1â€vinylâ€2â€pyrrolidone. Polymers for Advanced Technologies, 2018, 29, 2042-2049.	1.6	0
93	Study of swollen crosslinked polymers by low-temperature adsorption of nitrogen using blocking siloxane agent. Polymer Testing, 2019, 79, 105990.	2.3	0
94	Free volume in the smectic- E phase of 4-hexyl-4â€² isothiocyanatobiphenyl studied by positron annihilation spectroscopy. Physical Review E, 2020, 101, 022705.	0.8	0
95	Structural rearrangements in confined n-hexane at elevated temperature. Isobars in pore characterization. Experimental Thermal and Fluid Science, 2021, 128, 110435.	1.5	0