

Radoslaw Zaleski

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Ammonia vapor induced transformation of selected alkoxysilanes within artificial and natural polymer templates. <i>Journal of Non-Crystalline Solids</i> , 2022, 576, 121288.	1.5	1
2	Unraveling the Phase Behavior of Water Confined in Nanochannels through Positron Annihilation. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5916-5926.	1.5	4
3	An experimental investigation of light emission produced in the process of positronium formation in matter. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11264-11271.	1.3	2
4	Positron lifetime spectroscopy of defect structures in Cd _{1-x} Zn _x Te mixed crystals grown by vertical Bridgman-Stockbarger method. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2021, 77, 515-525.	0.5	5
5	Structural rearrangements in confined n-hexane at elevated temperature. Isobars in pore characterization. <i>Experimental Thermal and Fluid Science</i> , 2021, 128, 110435.	1.5	0
6	Analysis of Surface Properties of Nickel Alloy Elements Exposed to Impulse Shot Peening with the Use of Positron Annihilation. <i>Materials</i> , 2021, 14, 7328.	1.3	6
7	Catalyst Deactivation Probed by Positron Annihilation Spectroscopy. <i>ACS Catalysis</i> , 2021, 11, 14967-14976.	5.5	9
8	Influence of different confining matrices on negative pressure in liquid n-heptane investigated using positronium bubbles as a probe. <i>Journal of Colloid and Interface Science</i> , 2020, 558, 259-268.	5.0	5
9	Polymer-mesoporous silica composites for drug release systems. <i>Microporous and Mesoporous Materials</i> , 2020, 294, 109881.	2.2	22
10	Free volume in the smectic-E phase of 4-hexyl-4'-isothiocyanatobiphenyl studied by positron annihilation spectroscopy. <i>Physical Review E</i> , 2020, 101, 022705.	0.8	0
11	Study of swollen crosslinked polymers by low-temperature adsorption of nitrogen using blocking siloxane agent. <i>Polymer Testing</i> , 2019, 79, 105990.	2.3	0
12	Swelling of cross-linked polymers in silicones of different molecular weight. <i>Polymer</i> , 2019, 179, 121611.	1.8	5
13	Positron study of adsorption of n-heptane in SBA-3. <i>Adsorption</i> , 2019, 25, 881-887.	1.4	1
14	ESR and PALS detection of the dynamic crossover in the supercooled liquid states of short and medium-sized n-alkanes. <i>Chemical Physics Letters</i> , 2018, 700, 102-107.	1.2	4
15	Formation of polysilsesquioxane network by vapor-phase method in the spatially limited system of cross-linked polymer pores. <i>Polymer</i> , 2018, 141, 202-212.	1.8	2
16	Evaluation of Single-Chip, Real-Time Tomographic Data Processing on FPGA SoC Devices. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 2526-2535.	5.4	57
17	Investigation of porous structure polymeric materials based on vinylpyrrolidone. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2042-2049.	1.6	0
18	Macro- and Nanoscopic Studies of Porous Polymer Swelling. <i>Macromolecules</i> , 2017, 50, 5080-5089.	2.2	23

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19	Positron insight into evolution of pore volume and penetration of the polymer network by n-heptane molecules in mesoporous XAD4. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10009-10019.	1.3	17
20	Solid-state dynamics and single-crystal to single-crystal structural transformations in octakis(3-chloropropyl)octasilsesquioxane and octavinyl octasilsesquioxane. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27516-27529.	1.3	13
21	Positron Probing of Liquid-free Volume To Investigate Adsorption–Desorption Behavior of Water in Two-Dimensional Mesoporous SBA-3. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17251-17262.	1.5	19
22	Amberlite XAD copolymers as an environment for silica deposition. <i>Microporous and Mesoporous Materials</i> , 2017, 237, 210-221.	2.2	10
23	Controlled Porosity of MCM-41 Obtained by Partial Blocking of Pores by Silicon Oil. <i>Acta Physica Polonica A</i> , 2017, 132, 1559-1564.	0.2	2
24	Porosity of Silica Monoliths with Tailored Mesopores of Ink-Bottle Shape Determined by Nitrogen Adsorption and Positron Annihilation Lifetime Spectroscopy. <i>Acta Physica Polonica A</i> , 2017, 132, 1568-1572.	0.2	1
25	Impact of Impulse Shot Peening Parameters on Properties of Stainless Steel Surface. <i>Acta Physica Polonica A</i> , 2017, 132, 1611-1616.	0.2	5
26	Positron porosimetry study of mesoporous polymer–silica composites. <i>Adsorption</i> , 2016, 22, 745-754.	1.4	9
27	Determination of the γ Fraction from Positron Annihilation in Mesoporous Materials for Symmetry Violation Experiment with J-PET Scanner. <i>Acta Physica Polonica B</i> , 2016, 47, 453.	0.3	25
28	Principles of positron porosimetry. <i>Nukleonika</i> , 2015, 60, 795-800.	0.3	20
29	N-heptane adsorption and desorption in mesoporous materials. <i>Journal of Physics: Conference Series</i> , 2015, 618, 012040.	0.3	3
30	Mechanical Stability of Porous Copolymers by Positron Annihilation Lifetime Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 11636-11645.	1.5	12
31	Positron annihilation lifetime spectroscopy study of roller burnished magnesium alloy. <i>Nukleonika</i> , 2015, 60, 789-794.	0.3	1
32	Spin probe dynamics in relation to free volume in crystalline organics from ESR and PALS: N-tridecane. <i>Physica B: Condensed Matter</i> , 2015, 476, 100-108.	1.3	7
33	Positron annihilation study of aluminum, titanium, and iron alloys surface after shot peening. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 120, 551-559.	1.1	16
34	Gas Pressure Induced Porosity of CYTOP Polymer. A–Positron Study. <i>Acta Physica Polonica A</i> , 2014, 125, 782-784.	0.2	3
35	n-Heptane adsorption in periodic mesoporous silica by in situ positron annihilation lifetime spectroscopy. <i>Microporous and Mesoporous Materials</i> , 2013, 179, 104-110.	2.2	17
36	Nanostructured polymer–titanium composites and titanium oxide through polymer swelling in titania precursor. <i>Colloid and Polymer Science</i> , 2013, 291, 1463-1470.	1.0	13

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37	What can positronium tell us about adsorption?. Adsorption, 2013, 19, 529-535.	1.4	8
38	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
39	Positron annihilation studies of 4-n-butyl-4- ϵ -isothiocyanato-1,1- ϵ^2 -biphenyl. Physical Review E, 2013, 88, 022504.	0.8	6
40	Ortho-positronium localization in pores of Vycor glass at low temperature. Journal of Physics: Conference Series, 2013, 443, 012062.	0.3	7
41	Positron annihilation and N ₂ adsorption for nanopore determination in silica-polymer composites. RSC Advances, 2012, 2, 3729.	1.7	33
42	Positron Annihilation Lifetime Study of Steel Surface Modification by Shot Peening. Physics Procedia, 2012, 35, 92-97.	1.2	6
43	Composition of pore surface investigated by positron annihilation lifetime spectroscopy. Microporous and Mesoporous Materials, 2012, 163, 276-281.	2.2	20
44	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
45	Intermolecular free volumes and intramolecular defects in <i>n</i> -alkanes. Journal of Physics: Conference Series, 2011, 265, 012023.	0.3	10
46	Thinning down of polymer matrix by entrapping silica nanoparticles. Colloid and Polymer Science, 2011, 289, 751-758.	1.0	6
47	Synthesis and characterization of nanostructural polymer-silica composite: Positron annihilation lifetime spectroscopy study. Journal of Colloid and Interface Science, 2011, 358, 268-276.	5.0	43
48	Porosity evolution of VP-DVB/MCM-41 nanocomposite. Journal of Colloid and Interface Science, 2010, 343, 134-140.	5.0	26
49	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
50	Porosity of polymer materials by various techniques. Journal of Porous Materials, 2009, 16, 691-698.	1.3	23
51	Positronium lifetime in porous VP _{1/2} i _{1/2} i _{1/2} DVB copolymer. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2445-2447.	0.8	15
52	Positronium in high temperature phases of long-chain even n-alkanes. Chemical Physics, 2009, 355, 123-129.	0.9	14
53	Positron irradiation effects in simple organic solids. Radiation Physics and Chemistry, 2008, 77, 1306-1310.	1.4	9
54	Positron Porosimetry Studies of Template Removal from As-Synthesized MCM-41 Silica. Acta Physica Polonica A, 2008, 113, 1543-1550.	0.2	8

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55	Positronium annihilation study of as-synthesized MCM-41 silica under pressure. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 471-478.	1.5	4
56	Migration of siloxane polymer in ordered mesoporous MCM-41 silica channels. <i>Studies in Surface Science and Catalysis</i> , 2007, 160, 431-437.	1.5	1
57	Positron annihilation and phase transitions in argon intercalated n-nonadecane. <i>Chemical Physics</i> , 2007, 335, 1-6.	0.9	4
58	Positronium in 1-tridecene. <i>Chemical Physics</i> , 2007, 342, 85-89.	0.9	1
59	Positronium in solid phases of long-chain paraffins. <i>Radiation Physics and Chemistry</i> , 2007, 76, 185-188.	1.4	11
60	Pick-off models in the studies of mesoporous silica MCM-41. Comparison of various methods of the PAL spectra analysis. <i>Radiation Physics and Chemistry</i> , 2007, 76, 243-247.	1.4	30
61	Temperature dependence of positronium lifetime in cylindrical pores. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3814-3818.	0.8	3
62	Testing ETE model, temperature dependences of PALS data. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3985-3988.	0.8	1
63	Temperature dependence of o-Ps lifetime in some porous media. Deviations from ETE model. <i>Chemical Physics Letters</i> , 2006, 430, 351-354.	1.2	9
64	Measurement and Analysis of the Positron Annihilation Lifetime Spectra for Mesoporous Silica. <i>Acta Physica Polonica A</i> , 2006, 110, 729-738.	0.2	17
65	Positron Annihilation in Steel Burnished by Vibratory Shot Peening. <i>Acta Physica Polonica A</i> , 2006, 110, 739-746.	0.2	6
66	Negative compressibility of free volumes in argon intercalated n-nonadecane. <i>Chemical Physics Letters</i> , 2005, 402, 367-369.	1.2	7
67	Template transformations in preparation of MCM-41 silica. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 79, 555-560.	2.0	15
68	Pressure Effects in ortho-Positronium Annihilation. <i>Acta Physica Polonica A</i> , 2005, 107, 608-614.	0.2	3
69	Positronium Formation in Solid Long-Chain Alkanes. <i>Acta Physica Polonica A</i> , 2005, 107, 635-641.	0.2	10
70	Three-Quantum Annihilation in Porous Vycor Glass. <i>Acta Physica Polonica A</i> , 2005, 107, 821-825.	0.2	4
71	Testing the Extended Tao-Eldrup Model. Silica Gels Produced with Polymer Template. <i>Acta Physica Polonica A</i> , 2005, 107, 868-873.	0.2	11
72	Positron Study of MCM-41 Sieve Formation. <i>Materials Science Forum</i> , 2004, 445-446, 364-366.	0.3	1

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73	Odd-Even Differences in o-Ps Properties in Some Solid Long-Chain Alkanes. Materials Science Forum, 2004, 445-446, 298-300.	0.3	6
74	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
75	Positronium in solid phases of n-pentacosane. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 333, 341-346.	0.9	4
76	Positronium inhibition in naphthalene at high pressures. Chemical Physics Letters, 2004, 387, 433-435.	1.2	7
77	Observation of intramolecular defects in n-alkanes C ₂₅ H ₅₂ –C ₂₉ H ₆₀ by the positron annihilation method. Chemical Physics Letters, 2004, 394, 90-92.	1.2	6
78	Temperature, pressure and source-irradiation effects in positronium formation in some solid long-chain alkanes. Chemical Physics, 2003, 295, 243-253.	0.9	33
79	Positron probing of the micellar template interior in MCM-41. Chemical Physics Letters, 2003, 372, 794-799.	1.2	14
80	Electron density at positronium's site in MCM-41 ordered silica. Chemical Physics Letters, 2003, 372, 800-804.	1.2	6
81	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
82	Ortho-Ps annihilation in resorcinol at high pressure. Radiation Physics and Chemistry, 2003, 68, 577-579.	1.4	1
83	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
84	Positron Lifetime in Mesoporous Silica of MCM-41 Type. Langmuir, 2003, 19, 2599-2605.	1.6	33
85	Positron studies of vapour absorption and desorption by melamine–formaldehyde resin. Materials Chemistry and Physics, 2002, 76, 285-289.	2.0	5
86	On possible deviations of experimental PALS data from positronium pick-off model estimates. Chemical Physics, 2002, 280, 295-307.	0.9	32
87	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
88	<i>n</i>-Nonadecane Embedded in Mesopores. Materials Science Forum, 0, 607, 180-182.	0.3	8
89	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
90	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

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91	Positronium in Normal Alkanes. Selected Problems. Materials Science Forum, 0, 666, 93-98.	0.3	1
92	<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
93	Testing of the Extended Tao-Eldrup Model on Porous VP-DVB Copolymers. Materials Science Forum, 0, 733, 24-28.	0.3	4
94	Positron Lifetime Annihilation Study of Porous Composites and Silicas Synthesized Using Polymer Templates. Defect and Diffusion Forum, 0, 373, 280-283.	0.4	0
95	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