KÃ¡roly SÃ¼vegh

List of Publications by Year
in descending order

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98 papers	992 citations	516710 16 h-index	580821 25 g-index
101 all docs	101 docs citations	101 times ranked	921 citing authors

#	Article	IF	Citations
1	Free Volume and Swelling Dynamics of the Poly[(2-dimethylamino)ethyl methacrylate]-l-polyisobutylene Amphiphilic Network by Positron Annihilation Investigations. Macromolecules, 1998, 31, 7770-7775.	4.8	59
2	Physical Aging of Poly(vinylpyrrolidone) under Different Humidity Conditions. Macromolecules, 2002, 35, 795-800.	4.8	43
3	Anomalous Swelling Behavior of Poly(N-vinylimidazole)-l-Poly(tetrahydrofuran) Amphiphilic Conetwork in Water Studied by Solid-State NMR and Positron Annihilation Lifetime Spectroscopy. Macromolecules, 2012, 45, 7557-7565.	4.8	38
4	Preparation and Structural Properties of Tin Oxideâ^'Montmorillonite Nanocomposites. Langmuir, 2003, 19, 3762-3769.	3.5	33
5	Free Volume Distribution in Monodisperse and Polydisperse Poly(methyl methacrylate) Samples. Macromolecules, 1999, 32, 1147-1151.	4.8	29
6	Effect of plasticizer on the dynamic surface tension and the free volume of Eudragit systems. International Journal of Pharmaceutics, 2002, 244, 81-86.	5.2	29
7	Tracking of the physical ageing of amorphous pharmaceutical polymeric excipients by positron annihilation spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 2006, 40, 249-254.	2.8	28
8	Positronium as a sensitive detector of changes in molecular structure. Advances in Molecular Structure Research, 1999, , 313-357.	0.3	28
9	Tracking the physical aging of poly(ethylene oxide): A technical note. AAPS PharmSciTech, 2006, 7, E95-E98.	3.3	27
10	Evaluation of surface and microstructure of differently plasticized chitosan films. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 655-659.	2.8	27
11	Dose effect in neutron-irradiated C60: a positron lifetime spectroscopy and DSC study. Chemical Physics Letters, 1995, 238, 290-294.	2.6	24
12	The effect of the solvent on the film-forming parameters of hydroxypropyl-cellulose. International Journal of Pharmaceutics, 2005, 301, 192-198.	5.2	22
13	Oxidation/Reduction Effects on the Thermoluminescence of?-Al2O3 Single Crystals. Physica Status Solidi A, 2000, 179, 249-260.	1.7	21
14	Correlation between the release characteristics of theophylline and the free volume of polyvinylpyrrolidone. European Journal of Pharmaceutical Sciences, 2005, 24, 351-354.	4.0	20
15	Positron lifetime study of an Al-1.7at.% Mg-1.1at.% Cu alloy. Philosophical Magazine Letters, 2001, 81, 145-151.	1.2	19
16	Metoloseâ€"PEG interaction as seen by positron annihilation spectroscopy. International Journal of Pharmaceutics, 2006, 313, 66-71.	5.2	18
17	Characterization of Arachidate Langmuirâ^'Blodgett Films by Variable Energy Positron Beams. Langmuir, 1999, 15, 8189-8196.	3.5	17
18	Chlorine dioxide-loaded poly(acrylic acid) gels for prolonged antimicrobial effect. Materials Science and Engineering C, 2019, 98, 782-788.	7.3	17

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19	Positron lifetime in supramolecular gamma- and delta-cyclodextrinâ€“C60 and â€“C70 compounds. Chemical Physics Letters, 2001, 344, 263-269.	2.6	16
20	Study of the effect of lactose on the structure of sodium alginate films. Carbohydrate Polymers, 2009, 77, 530-535.	10.2	16
21	High temperature thermal stability of ultrafine-grained silver processed by equal-channel angular pressing. Journal of Materials Science, 2013, 48, 1675-1684.	3.7	16
22	Electrodeposition of novel Snâ€“Niâ€“Fe ternary alloys with amorphous structure. Applied Surface Science, 2010, 256, 7713-7716.	6.1	15
23	Positron annihilation study of a low-molecular-weight organic glass-forming liquid (BMMPC). Europhysics Letters, 1999, 46, 815-820.	2.0	14
24	Effects of excipients on the tensile strength, surface properties and free volume of KlucelÂ® free films of pharmaceutical importance. Radiation Physics and Chemistry, 2013, 89, 57-63.	2.8	14
25	Positron annihilation study of spin-crossover in [FexZn1â˜'x(ptz)6](BF4)2 single crystals. Journal of Physics and Chemistry of Solids, 1994, 55, 1269-1275.	4.0	13
26	Nuclear techniques in structural chemistry. Journal of Radioanalytical and Nuclear Chemistry, 1996, 203, 399-412.	1.5	13
27	Positronium as a tool to monitor changes of chemical structure. Radiation Physics and Chemistry, 1999, 55, 541-548.	2.8	13
28	The effect of storage and active ingredient properties on the drug release profile of poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	10.2	13
29	Correlation between the free volume and the metoprolol tartrate release of Metolose patches. Journal of Pharmaceutical and Biomedical Analysis, 2010, 51, 244-247.	2.8	13
30	Comparison of the enthalpy recovery and free volume of polyvinylpyrrolidone during anomalous glassy to rubbery transition. European Journal of Pharmaceutical Sciences, 2004, 21, 519-523.	4.0	12
31	Tracking of the viability of Stenotrophomonas maltophilia bacteria population in polyvinylalcohol nanofiber webs by positron annihilation lifetime spectroscopy. International Journal of Pharmaceutics, 2012, 429, 135-137.	5.2	12
32	Real time positron annihilation lifetime spectroscopy for the detection of the hydrocolloid gel-film transition of polymers. Polymer Testing, 2012, 31, 546-549.	4.8	12
33	Macro- and microstructural tracking of ageing-related changes of papaverine hydrochloride-loaded electrospun nanofibrous buccal sheets. Journal of Pharmaceutical and Biomedical Analysis, 2017, 143, 62-67.	2.8	12
34	Characterization of the Î²-Ni(OH)2/Î²-NiOOH system by positron lifetime spectroscopy. Electrochimica Acta, 1988, 33, 1061-1066.	5.2	11
35	Effects of storage conditions on the free volume of polyvinylpyrrolidone: comparison of positron lifetime data with the tensile strength of tablets. Pharmaceutical Research, 2000, 17, 1030-1032.	3.5	11
36	Microstructural characterization of papaverine-loaded HPC/PVA gels, films and nanofibers. European Journal of Pharmaceutical Sciences, 2018, 122, 9-12.	4.0	11

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37	Local structural deformation in[Zn(1â^'propyltetrazole)6](BF4)2and[Fe(1â^'propyltetrazole)6](BF4)2crystals observed by positron-annihilation spectroscopy. Physical Review B, 1998, 57, 14119-14122.	3.2	10
38	The structure and composition of novel electrodeposited Snâ€"Fe and Snâ€"Coâ€"Fe alloys from a flow circulation cell system. Hyperfine Interactions, 2009, 192, 1-12.	0.5	10
39	Effect of storage on microstructural changes of Carbopol polymers tracked by the combination of positron annihilation lifetime spectroscopy and FT-IR spectroscopy. International Journal of Pharmaceutics, 2011, 416, 160-163.	5.2	10
40	Prediction of the drug release stability of different polymeric matrix tablets containing metronidazole. Journal of Pharmaceutical and Biomedical Analysis, 2011, 54, 730-734.	2.8	10
41	Comparison of simulated and measured free volume distributions in polymers. Radiation Physics and Chemistry, 2000, 58, 539-543.	2.8	9
42	Influence of Intermolecular Interactions on the MÃ¶ssbauer Quadrupole Splitting of Organotin(IV) Compounds as Studied by DFT Calculations. Journal of Physical Chemistry A, 2007, 111, 13172-13181.	2.5	9
43	Application of positron lifetime spectroscopy to the study of electrodeposited chromium layers. Journal of Electroanalytical Chemistry, 1998, 455, 69-73.	3.8	8
44	Positron annihilation study of polyphenylene dendrimers. Radiation Physics and Chemistry, 2003, 67, 325-330.	2.8	8
45	Facile Preparation of a Laponite/PVA Mixed Matrix Membrane for Efficient and Sustainable Pervaporative Dehydration of C1â€"C3 Alcohols. ACS Omega, 2020, 5, 32373-32385.	3.5	8
46	Positron Lifetime and MÃ¶ssbauer Spectroscopy Study of Vacancyâ€"Tin Interaction in Dilute Alï£¿Sn Alloys. Physica Status Solidi A, 1987, 103, 397-401.	1.7	7
47	Positron lifetime study of the ferroelectric BaTiO3 in electric field. Journal of Radioanalytical and Nuclear Chemistry, 1996, 211, 255-260.	1.5	7
48	Prediction of the stability of polymeric matrix tablets containing famotidine from the positron annihilation lifetime distributions of their physical mixtures. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 711-714.	2.8	7
49	The influence of Metolose structure on the free volume and the consequent metoprolol tartrate release of patches. International Journal of Biological Macromolecules, 2009, 44, 6-8.	7.5	7
50	Testing of the structure of macromolecular polymer films containing solid active pharmaceutical ingredient (API) particles. Radiation Physics and Chemistry, 2011, 80, 799-802.	2.8	7
51	Investigation of Surface Properties and Free Volumes of Chitosan-Based Buccal Mucoadhesive Drug Delivery Films Containing Ascorbic Acid. Pharmaceutics, 2022, 14, 345.	4.5	7
52	Positron annihilation study of spin-crossover in [Fe x Zn1â^'x (ptz)6](BF4)2 single crystals. Hyperfine Interactions, 1994, 84, 483-489.	0.5	6
53	o-Ps in Solid Materials: Perturbation Theory Calculations. Materials Science Forum, 1997, 255-257, 251-253.	0.3	6
54	Investigations of microstructures and defect structures in wear affected region created on Nimonic 80A during high temperature wear. Tribology Letters, 2005, 18, 395-404.	2.6	6

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55	Comparison of the micro- and macrostructural characteristics of biopolymer cast films. European Polymer Journal, 2013, 49, 2422-2425.	5.4	6
56	Positron implantation in polymer coatings. Journal of Radioanalytical and Nuclear Chemistry, 1987, 117, 183-193.	1.5	5
57	Water absorption in a polymeric network. Journal of Radioanalytical and Nuclear Chemistry, 1996, 211, 219-224.	1.5	5
58	Positron Annihilation in [Fe(ptz)6](BF4)2and [Zn(ptz)6](BF4)2Single Crystals Studied with One-Dimensional Angular Correlation of Annihilation Radiation. Japanese Journal of Applied Physics, 1998, 37, 111-112.	1.5	5
59	CO2 absorption of perovskites as seen by positron lifetime spectroscopy. Radiation Physics and Chemistry, 2000, 58, 733-736.	2.8	5
60	Extended NMR Study of Spin-Crossover Compounds [Fe(1-alkyl-1H-tetrazole)6](BF4)2 and Their ZnII Analogs. Structural Chemistry, 2003, 14, 349-368.	2.0	5
61	The Effect of Plasticizer on the Free Volume in Metolose Systems. Materials Science Forum, 2004, 445-446, 325-327.	0.3	5
62	Moì^ssbauer, x-ray diffraction, and microscopy investigations of novel electrodeposited amorphous alloys. , 2012, , .		5
63	Vacancy trapping at tin atoms during the recovery of a fast-quenched dilute aluminium-tin alloy and its effect on the isomer shift of the119Sn Mossbauer isotope. Journal of Physics Condensed Matter, 1990, 2, 3201-3217.	1.8	4
64	A positron annihilation study on phase transitions in trans-stilbene single crystal. Journal of Radioanalytical and Nuclear Chemistry, 1995, 200, 265-275.	1.5	4
65	Structural changes in carbon films derived from Kapton observed by the positron annihilation lifetime technique. Carbon, 2000, 38, 1419-1422.	10.3	4
66	Defect structure of electrodeposited chromium layers. Radiation Physics and Chemistry, 2000, 58, 693-696.	2.8	4
67	The effect of plasticizer on the ageing of Metolose films. Radiation Physics and Chemistry, 2007, 76, 165-168.	2.8	4
68	Characterization of ethylcellulose free films by positron annihilation spectroscopy and mechanical testing. Microchemical Journal, 2014, 115, 47-50.	4.5	4
69	Two Long Lifetimes in Liquid Normal Hexane. Materials Science Forum, 1992, 105-110, 1749-1752.	0.3	3
70	Molecular weight dependence of positron lifetime parameters in PEEK samples. Journal of Radioanalytical and Nuclear Chemistry, 1994, 186, 375-384.	1.5	3
71	EFFECT OF SPIN-CROSSOVER ON THE PARAMETERS OF THE LIFETIME SPECTRA OF POSITRONS AND POSITRONIUM IN CRYSTALLINE MATERIALS. Journal of Physics and Chemistry of Solids, 1998, 59, 1235-1239.	4.0	3
72	Nuclear Techniques in the Elucidation of Chemical Structure. Journal of Radioanalytical and Nuclear Chemistry, 2000, 243, 241-253.	1.5	3

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73	Study of the Swelling of Poly[2-(N,N-Dimethyl Amino)Ethyl Methacrylate]-l-Polyisobutylene (PDMAEMA-l-PIB) Amphiphilic Co-Network. Materials Science Forum, 2001, 363-365, 365-367.	0.3	3
74	Tracking of the effects of the plasticizer on the water uptake and free volume changes of methylcellulose. Polymers for Advanced Technologies, 2007, 18, 921-924.	3.2	3
75	Influence of Aqueous Solubility-Enhancing Excipients on the Microstructural Characteristics of Furosemide-Loaded Electrospun Nanofibers. Pharmaceutics, 2020, 12, 385.	4.5	3
76	Positron Annihilation Spectroscopies. , 2011, , 1461-1484.		3
77	Ortho-Positronium Lifetime As a Detector of Spin-Crossover. Acta Physica Polonica A, 1999, 95, 469-473.	0.5	3
78	Oxidation of Î²-Ni(OH)2: positron lifetime study of a heterogeneous solid. Journal of Physics Condensed Matter, 1989, 1, SA85-SA90.	1.8	2
79	Multinomial distribution as the most likely distribution of the stoichiometric composition of stochastically formednmers. Journal of Radioanalytical and Nuclear Chemistry, 1990, 141, 373-391.	1.5	2
80	Positron distributions in multi-component, fine-grained materials. Journal of Radioanalytical and Nuclear Chemistry, 1992, 166, 219-237.	1.5	2
81	The Effect of the Spin-Crossover on the ACAR Spectra through the Ortho-Para Conversion of Positronium. Materials Science Forum, 1995, 175-178, 765-767.	0.3	2
82	Positron lifetime study of several chiral materials in aqueous solution. Journal of Radioanalytical and Nuclear Chemistry, 1996, 211, 203-210.	1.5	2
83	Positron annihilation and1H NMR study of [Zn(1-propyltetrzole)6](BF4)2 and [Fe(Methyltetrazole)6](BF4)2 complexes. Journal of Radioanalytical and Nuclear Chemistry, 1996, 211, 247-253.	1.5	2
84	Hydrogen-Bounded Clusters in Aqueous Solutions: A Combined Positron Annihilation and FTIR Study. Materials Science Forum, 1997, 255-257, 348-350.	0.3	2
85	Use of a Newly Developed Compact 2D-ACAR Spectrometer for the Study of Positronium in Solids. Materials Science Forum, 1997, 255-257, 488-490.	0.3	2
86	Tracking of the micro-structural changes of levonorgestrel-releasing intrauterine system by positron annihilation lifetime spectroscopy. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 902-905.	2.8	2
87	Positron lifetime studies of organic coatings. Crystal Research and Technology, 1988, 23, 285-290.	1.3	1
88	Fe²⁺ Spin-Crossover Complexes: Structure and Positron Annihilation. Materials Science Forum, 1997, 255-257, 281-283.	0.3	1
89	Frontiers of positron and positronium chemistry in condensed media. Journal of Radioanalytical and Nuclear Chemistry, 1999, 239, 29-36.	1.5	1
90	Effects of the degree of polymerization on the free volume structure of linear amphiphilic poly(isobutylene)â€“poly(methyl vinyl ether) diblock copolymers. Radiation Physics and Chemistry, 2005, 74, 247-251.	2.8	1

#	ARTICLE	IF	CITATIONS
91	Poster contributions. Hyperfine Interactions, 1989, 47-48, 433-589.	0.5	0
92	MÃ¶ssbauer and positron annihilation study of tin-vacancy interaction during the recovery of a dilute Alâ˜Sn alloy. Hyperfine Interactions, 1989, 45, 389-396.	0.5	0
93	Positron lifetime study of electron-irradiated epoxy resins. Journal of Radioanalytical and Nuclear Chemistry, 1990, 145, 159-165.	1.5	0
94	MÃ¶ssbauer spectroscopic and positron annihilation studies of iron and tin containing aluminium alloys. Hyperfine Interactions, 1991, 66, 191-201.	0.5	0
95	Positron annihilation in non-simple liquids. Normal hexane. Journal of Radioanalytical and Nuclear Chemistry, 1995, 190, 457-462.	1.5	0
96	Positron Lifetime Study in Single Crystals of Iron(II) Coordination Compounds. Materials Science Forum, 1997, 255-257, 445-447.	0.3	0
97	Title is missing!. Journal of Radioanalytical and Nuclear Chemistry, 2000, 245, 347-352.	1.5	0
98	Physicochemical testing of free films containing nonâ€soluble components. Polymers for Advanced Technologies, 2012, 23, 1020-1024.	3.2	0