C Ranganathaiah

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Comparative study of 150ÂkeV Ar+ and O+ ion implantation induced structural modification on electrical conductivity in Bakelite polymer. Journal of Physics and Chemistry of Solids, 2018, 113, 74-81.	1.9	7
2	Correlation of free space length and surface energy of epoxy nanocomposites to surface tracking. IEEE Transactions on Dielectrics and Electrical Insulation, 2018, 25, 2129-2138.	1.8	16
3	Influence of oxygen ion implantation on the free volume parameters and electrical conductivity of a polymerâ€based bakelite RPC detector material. Journal of Applied Polymer Science, 2017, 134, .	1.3	6
4	Effect of argon ion implantation on the microstructure and electrical conductivity of a polymer based bakelite RPC detector material. AIP Conference Proceedings, 2017, , .	0.3	0
5	Effect of electron beam irradiation on the microstructure, optical and electrical properties of glass resistive plate chamber detector material. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	2
6	Oxygen ion implantation induced structural modifications and electrical conductivity in glass RPC detector materials: A positron lifetime study. Journal of Non-Crystalline Solids, 2017, 471, 151-159.	1.5	5
7	Moisture and filler induced effects on the dynamic mechanical properties of glass fiber reinforced epoxy hybrid composites. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 3631-3640.	1.8	7
8	Investigations of copper sulfide diffusion into paper insulation of transformers. IEEE Transactions on Dielectrics and Electrical Insulation, 2016, 23, 2421-2429.	1.8	8
9	Oxygen ion implantation induced microstructural changes and electrical conductivity in Bakelite RPC detector material. AIP Conference Proceedings, 2016, , .	0.3	0
10	Electron beam induced microstructural changes and electrical conductivity in Bakelite polymer RPC detector material: A positron lifetime study. Journal of Physics: Conference Series, 2015, 618, 012032.	0.3	2
11	Electron Beam Induced Microstructural Changes and Electrical Conductivity in Bakelite RPC Detector Material. IEEE Transactions on Nuclear Science, 2015, 62, 306-313.	1.2	14
12	Tuning of band gap in TiO ₂ and ZnO nanoparticles by selective doping for photocatalytic applications. Materials Research Innovations, 2015, 19, 73-80.	1.0	19
13	Characterization of interfaces in Binary and Ternary Polymer Blends by Positron Lifetime Spectroscopy. Journal of Physics: Conference Series, 2015, 618, 012022.	0.3	2
14	Influence of nanopores on molecular polarizability and polarization currents in epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2014, 21, 1166-1174.	1.8	9
15	Variation of lexan polycarbonate properties by electron beam. Journal of Applied Polymer Science, 2013, 127, 2010-2018.	1.3	7
16	A new insight into interface widths in binary polymer blends based on orthoâ€positronium lifetime studies. Journal of Applied Polymer Science, 2013, 127, 190-199.	1.3	5
17	Investigation of organo-modified montmorillonite loading effect on the abrasion resistance of hybrid composites. Materials & Design, 2013, 47, 750-758.	5.1	23
18	Positron annihilation lifetime study of interfaces in ternary polymer blends. Journal of Physics: Conference Series, 2013, 443, 012047.	0.3	0

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19	Influence of polar groups in binary polymer blends on positronium formation. Physical Review E, 2013, 87, 052602.	0.8	11
20	Interface profile studies in immiscible and partially miscible binary polymer blends from free volume measurement. Journal of Physics: Conference Series, 2013, 443, 012048.	0.3	3
21	Experimental determination of interface widths in binary polymer blends from free volume measurements. Polymer, 2012, 53, 4539-4546.	1.8	17
22	Characterization of interfaces in Poly (styrene-co-acrylonitrile) (SAN) based ternary polymer blends: A new approach from positron lifetime spectroscopy. Polymer, 2012, 53, 842-850.	1.8	13
23	Chromium–manganese iron alloy system design cast in metal and sand moulds for erosion resistance: a positron lifetime study. International Journal of Advanced Manufacturing Technology, 2011, 52, 45-52.	1.5	3
24	Characterization of ACS modified epoxy resin composites with fly ash and cenospheres as fillers: Mechanical and microstructural properties. Polymer Composites, 2011, 32, 139-146.	2.3	30
25	New hyperbranched polymers for membranes of highâ€ŧemperature polymer electrolyte membrane fuel cells: Determination of the crystal structure and freeâ€volume size. Journal of Applied Polymer Science, 2011, 121, 923-929.	1.3	12
26	Characterization of nanosilicaâ€filled epoxy composites for electrical and insulation applications. Journal of Applied Polymer Science, 2011, 121, 2752-2760.	1.3	37
27	Free Volume Size Distribution in Some Natural Polymers. , 2011, , .		2
28	Microwave assisted improvement in physico-mechanical properties of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10) Tf 50 382 1.2	2 Td (alcohol)/ 12
29	Effect of zeolite particulate filler on the properties of polyurethane composites. Journal of Polymer Research, 2010, 17, 135-142.	1.2	14
30	Positron Lifetime Spectroscopy and Differential Scanning Calorimetric study of polystyreneâ€based composites with fly ash, cenospheres, and calcium aluminosilicate as fillers. Journal of Applied Polymer Science, 2010, 116, 3087-3094.	1.3	6
31	Chemical and photochemical degradation of human hair: A free-volume microprobe study. Journal of Photochemistry and Photobiology B: Biology, 2010, 101, 286-294.	1.7	26
32	Photocatalytic treatment of organic pollutants in textile effluent using hydrothermally prepared photocatalytic composite. Materials Research Innovations, 2010, 14, 80-86.	1.0	9
33	New method of determining miscibility in binary polymer blends through hydrodynamic interaction: The free volume approach. Journal of Applied Polymer Science, 2009, 111, 577-588.	1.3	17
34	Spoliation of fluoroperm rigid gas permeable contact lens by sodium chloride: A positron annihilation study. Journal of Applied Polymer Science, 2009, 112, 372-380.	1.3	0
35	A new method of stabilization and characterization of the interface in binary polymer blends by irradiation: A positron annihilation study. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 619-632.	2.4	22
36	The effects of manganese content and mould size on abrasion and slurry erosion behaviour of chromium–manganese iron systems investigated by positron lifetime spectroscopy. Wear, 2009, 267, 1558-1565.	1.5	3

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37	A free-volume study on the phase modifications brought out by e-beam and microwave irradiations in PP/NBR and PVC/SAN blends. Polymer Degradation and Stability, 2009, 94, 397-403.	2.7	22
38	Diffusion of permanent liquid dye molecules in human hair investigated by positron lifetime spectroscopy. Colloids and Surfaces B: Biointerfaces, 2009, 69, 129-134.	2.5	18
39	Mechanical Properties of Modified Epoxies as Related to Free Volume Parameters. Journal of Adhesion, 2009, 85, 200-215.	1.8	13
40	Influence of spoliation in poly(2-hydroxy ethyl methacrylate) soft contact lens on its free volume and optical transparency. Journal of Materials Science: Materials in Medicine, 2008, 19, 1355-1361.	1.7	4
41	Effect of hygrothermal aging on the diffusion of seawater in epoxy/glass composites studied by positron lifetime spectroscopy. Polymer Composites, 2008, 29, 149-155.	2.3	4
42	Interfacial modifications in PS/PMMA and PVC/EVA blends by eâ€beam and microwave irradiation: A free volume study. Polymer Engineering and Science, 2008, 48, 1495-1503.	1.5	12
43	Effect of the fiber orientation on the sorption kinetics of seawater in an epoxy/glass composite: A freeâ€volume microprobe study. Journal of Applied Polymer Science, 2008, 109, 1302-1309.	1.3	4
44	Correlation Between Physico-Mechanical and Free Volume Properties of Gaur-Gum Filled Polyurethane/Polymethyl Methacrylate Biodegradable Composites. Journal of Composite Materials, 2008, 42, 1787-1800.	1.2	9
45	Glucose and water diffusion kinetics study in a fluorosilicone acrylate contact lens material by positron lifetime spectroscopy. Journal of Biomaterials Science, Polymer Edition, 2007, 18, 641-654.	1.9	4
46	Physico-mechanical and free volume behaviour of guar gum filled polyurethane/polyacrylonitrile biodegradable composites. European Polymer Journal, 2007, 43, 1580-1587.	2.6	15
47	The characterization of PP/NBR blends by positron annihilation lifetime spectroscopy (PALS): The effect of composition and dynamic vulcanization. Polymer Testing, 2007, 26, 88-94.	2.3	25
48	Hydrothermal preparation and characterization of TiO2:AC composites. Materials Letters, 2007, 61, 4828-4831.	1.3	20
49	Effect of barium chloride doping on PVA microstructure: positron annihilation study. Applied Physics A: Materials Science and Processing, 2007, 87, 797-805.	1.1	124
50	Photocatalytic degradation of indigo carmine dye using TiO2 impregnated activated carbon. Bulletin of Materials Science, 2007, 30, 37-41.	0.8	129
51	Free volume microprobe studies on poly(methyl methacrylate)/poly(vinyl chloride) and poly(vinyl) Tj ETQq1 1	0.784314 rg 1.5	BT /Qverlock
52	Miscibility and phase separation in SAN/PMMA blends investigated by positron lifetime measurements. European Polymer Journal, 2006, 42, 2655-2666.	2.6	54
53	Gas transport through nano and micro composites of natural rubber (NR) and their blends with carboxylated styrene butadiene rubber (XSBR) latex membranes. Polymer, 2006, 47, 858-870.	1.8	100
54	Differential scanning calorimetric and free volume study of reactive compatibilization by EPM-g-MA of poly(trimethylene terephthalate)/EPDM blends. Journal of Applied Polymer Science, 2006, 100, 740-747.	1.3	17

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55	Diffusion of seawater in unsaturated polyester resin and its glass fiber reinforced composites in the presence of titanium dioxide as UV absorber. Journal of Applied Polymer Science, 2006, 102, 2784-2794.	1.3	7
56	Influence of curing agent and compatibilizer on the physicomechanical properties of polypropylene/nitrile butadiene rubber blends investigated by positron annihilation lifetime technique. Journal of Applied Polymer Science, 2006, 102, 4672-4681.	1.3	42
57	Free Volume Micro Probe Study of Silver Ions Implanted in Polycarbonate. High Performance Polymers, 2006, 18, 933-947.	0.8	3
58	Positron annihilation and differential scanning calorimetric study of poly(trimethylene) Tj ETQq0 0 0 rgBT /Over	ock 10 Tf 1.8	50 622 Td (te
59	Free volume study on calcification process in an intraocular lens after cataract surgery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2005, 75B, 221-227.	1.6	4
60	Influence of free volume on the mechanical properties of Epoxy/poly (methylmethacrylate) blends. Journal of Materials Science, 2005, 40, 6523-6527.	1.7	24
61	Compatibilizer-induced microstructural changes in poly(trimethylene terephthalate)/EPDM blends studied by the positron annihilation lifetime technique and differential scanning calorimetry. Polymer International, 2005, 54, 1288-1295.	1.6	24
62	Free volume and the physico-mechanical behaviour of polyurethane/polyacrylonitrile interpenetrating polymer networks: positron annihilation results. Polymer International, 2005, 54, 1401-1407.	1.6	13
63	Structural relaxation in polyethylene in the presence of silver oxide investigated by positron-lifetime spectroscopy. Applied Physics A: Materials Science and Processing, 2004, 78, 565-573.	1.1	3
64	Water diffusion in a soft contact lens polymer and its tolerance to UV radiation studied by positron lifetime technique. Journal of Applied Polymer Science, 2004, 92, 1355-1366.	1.3	19
65	Compatibilizing effect of EPM-g-MA in EPDM/poly(trimethylene terephthalate) incompatible blends. Polymer, 2004, 45, 4925-4937.	1.8	118
66	Carbon-ion-induced modifications of the diffusion kinetics in poly (ethylene terephthalate): a free volume study. Radiation Measurements, 2003, 36, 629-634.	0.7	8
67	A free volume microprobe study of water sorption in a contact lens polymer. Journal of Biomaterials Science, Polymer Edition, 2002, 13, 1295-1311.	1.9	13
68	Water Sorption Studies in a RGP Contact Lens Polymer Paraperm by Positron Lifetime Technique. Physica Status Solidi A, 2002, 193, 257-270.	1.7	7
69	Thermally induced microstructural changes in cotton fibers: A free-volume study. Journal of Applied Polymer Science, 2002, 86, 3336-3345.	1.3	0
70	Structural relaxation in poly(ethylene terephthalate) studied by positron annihilation lifetime spectroscopy. Polymer International, 2002, 51, 765-771.	1.6	19
71	Positron lifetime study of diffusion kinetics in electron irradiated polycarbonate. Polymer Degradation and Stability, 2002, 76, 265-273.	2.7	21
72	A positron lifetime study of structural relaxation in UV irradiated poly (ethylene terephthalate). Polymer Degradation and Stability, 2002, 78, 449-458.	2.7	9

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73	Influence of ion-irradiation on the free volume controlled diffusion process in polycarbonate—a positron lifetime study. Polymer, 2002, 43, 2819-2826.	1.8	24
74	Influence of vinylidenefluoride on the physical ageing of poly(chlorotrifluoroethylene). European Polymer Journal, 2002, 38, 2285-2294.	2.6	3
75	Free-volume microprobe study of iodine diffusion in polymers. Polymer International, 2001, 50, 237-248.	1.6	53
76	Degradation of acrylonitrile-butadiene-styrene and polycarbonate by UV irradiation. Polymer Degradation and Stability, 2000, 69, 347-354.	2.7	73
77	The influence of vinylidenefluoride on the free volume of poly(chlorotrifluoroethylene). Polymer, 1999, 40, 5961-5965.	1.8	4
78	A positron annihilation study of the tensile behaviour of bivoltine silk fibers. European Polymer Journal, 1999, 35, 1107-1113.	2.6	13
79	Influence of strain on the thermal behaviour of poly(chlorotrifluoroethylene). Polymer International, 1999, 48, 33-40.	1.6	1
80	UV degradation of bivoltine silk fiber:a positron annihilation study. European Polymer Journal, 1998, 34, 1423-1427.	2.6	14
81	Positron annihilation study of iodine sorption in acrylonitrile-butadiene-styrene. Journal of Applied Polymer Science, 1998, 68, 2077-2085.	1.3	8
82	Effect of stress on the free volume content of poly(chlorotrifluoroethylene). Polymer, 1998, 39, 2987-2990.	1.8	7
83	Structural modifications in bivoltine silk fiber under thermal treatment. Journal of Applied Polymer Science, 1997, 63, 395-400.	1.3	8
84	Physical ageing of poly(chlorotrifluoroethylene): A positron annihilation study. European Polymer Journal, 1997, 33, 1707-1711.	2.6	22
85	Transport of iodine in poly(ethyleneterephthalate). European Polymer Journal, 1997, 33, 1753-1758.	2.6	10
86	Free volume study of poly(chlorotrifluoroethylene) using positron annihilation spectroscopy as a microanalytical tool. Polymer, 1996, 37, 3233-3239.	1.8	24
87	Correlation between Electron Density and Momentum in Free Volume Holes of Some Semicrystalline Polymers. Physica Status Solidi A, 1996, 158, 3-8.	1.7	8
88	Microstructure of polycarbonate seen by positrons as an in-situ probe. Applied Physics A: Materials Science and Processing, 1995, 60, 481-486.	1.1	21
89	FREE VOLUME RELATED STRUCTURAL CHANGES IN THE EPOXY POLYMER TGDDM. International Journal of Modern Physics B, 1994, 08, 1699-1711.	1.0	4
90	Positron lifetime study of the free-volume properties in the polymer polyacrylonitrile. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 174, 428-432.	0.9	8

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91	Thermally induced microstructural changes in undoped and doped polyacrylonitrile: A positron-annihilation study. Physical Review B, 1992, 46, 11471-11478.	1.1	16
92	Radiation Induced Changes in the Polymer PPO. A Positron Annihilation Study. Physica Status Solidi A, 1991, 124, 441-446.	1.7	2
93	Positron Lifetime Study on Microstructural Changes in Iodine-Doped Polymer PPO. Physica Status Solidi A, 1991, 125, 509-516.	1.7	3
94	Semiempirical Formulas for the K-Shell Photoionization Cross Sections for Gamma Rays in the 150- to 1300-keV Energy Range. Nuclear Science and Engineering, 1985, 90, 99-102.	0.5	1
95	Photoeffect cross sections of some rare-earth elements at 145.4 keV. Physical Review A, 1985, 32, 959-962.	1.0	5
96	Incoherent-scattering cross sections ofCo60Î ³ rays in elements. Physical Review A, 1984, 29, 387-390.	1.0	10
97	A simple method of determining the photoeffect cross sections of elements for gamma rays. Nuclear Instruments & Methods in Physics Research B, 1984, 5, 472-475.	0.6	5
98	Direct measurement of K-shell photoionization cross sections by means of the coincidence method. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 115, 411-414.	0.9	0
99	Incoherent-scattering cross sections in low- and medium-Zelements derived from the measured total attenuation cross sections in compounds. Physical Review A, 1981, 23, 2365-2373.	1.0	25
100	AtomicK-shell photoionization cross sections forSc46andCo60Î ³ rays. Physical Review A, 1981, 23, 1841-1847.	1.0	5
101	K-shell photoionisation cross sections for 514, 661.6, 765.8 and 1115.5 keV gamma rays. Journal of Physics B: Atomic and Molecular Physics, 1979, 12, 1965-1971.	1.6	9