

Paramjit Singh

List of Publications by Year in descending order

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papers

562
citations

516710

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27
all docs

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docs citations

27
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon ion beam induced modifications of optical, structural and chemical properties in PADC and PET polymers. Radiation Physics and Chemistry, 2012, 81, 652-658.	2.8	113
2	Study of high energy (MeV) N ⁶⁺ ion and gamma radiation induced modifications in low density polyethylene (LDPE) polymer. Nuclear Instruments & Methods in Physics Research B, 2013, 301, 12-16.	1.4	39
3	UV-visible and infrared spectroscopic studies of Li ³⁺ and C ⁵⁺ irradiated PADC polymer. Results in Physics, 2013, 3, 122-128.	4.1	35
4	Physical and chemical response of 145MeV Ne ⁶⁺ ion irradiated polymethylmethacrylate (PMMA) polymer. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 1755-1759.	1.4	33
5	Influence of High Energy Ion Irradiation on the Structural, Optical, and Chemical Properties of Polytetrafluoroethylene. Advances in Polymer Technology, 2014, 33, .	1.7	29
6	Modifications of structural, optical and chemical properties of Li ³⁺ irradiated polyurethane and polyetheretherketone. Radiation Physics and Chemistry, 2014, 96, 181-185.	2.8	26
7	Study of structural and free volume properties of swift heavy ion irradiated Polyallyl diglycol carbonate polymer films. Vacuum, 2013, 96, 46-51.	3.5	24
8	Gamma Radiation Induced Modifications on Physicochemical Properties of Makrofol (KG and N) Polycarbonate. Advances in Polymer Technology, 2015, 34, .	1.7	24
9	60MeV Ni ion induced modifications in nano-CdS/polystyrene composite films. Radiation Physics and Chemistry, 2014, 94, 49-53.	2.8	22
10	The influence of cross-linking and clustering upon the nanohole free volume of the SHI and β -radiation induced polymeric material. Applied Surface Science, 2015, 328, 482-490.	6.1	21
11	Influence of 120 MeV S ⁹⁺ ion irradiation on structural, optical and morphological properties of zirconium oxide thin films deposited by RF sputtering. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 898-907.	2.1	21
12	High energy 120 MeV Ti ⁹⁺ ion beam induced modifications in optical, structural and surface morphological properties of titanium dioxide thin films. Vacuum, 2019, 166, 323-334.	3.5	20
13	Study of physical and chemical modifications induced by 50MeV Li ³⁺ ion beam in polymers. Radiation Physics and Chemistry, 2014, 94, 54-57.	2.8	19
14	Influence of SHI upon nanohole free volume and micro scale level surface modifications of polyethyleneterephthalate polymer films. Applied Surface Science, 2015, 337, 19-26.	6.1	19
15	Modifications in physico-chemical properties of 100 MeV oxygen ions irradiated polyimide Kapton-H polymer. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 188-192.	1.4	19
16	Modifications induced by gamma irradiation upon structural, optical and chemical properties of polyamide nylon-6,6 polymer. Radiation Effects and Defects in Solids, 2014, 169, 679-685.	1.2	17
17	High energy (MeV) ion fluence dependent nano scale free volume defects studies of PMMA films. Nuclear Instruments & Methods in Physics Research B, 2014, 320, 64-69.	1.4	17
18	Free volume evolution in 50 MeV Li ³⁺ ion-irradiated polymers studied by positron annihilation lifetime spectroscopy. Radiation Effects and Defects in Solids, 2013, 168, 97-105.	1.2	16

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19	Investigation of in-depth and surface properties of polyethyleneterephthalate thin films after SHI and gamma radiation treatment by means of PALS and AFM studies. <i>Vacuum</i> , 2015, 115, 31-38.	3.5	13
20	Radiation induced nano-scale free volume modifications in amorphous polymeric material: a study using positron annihilation lifetime spectroscopy. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 1659-1666.	1.5	9
21	PALS and physico-chemical study of swift heavy ions and gamma radiation irradiated polyamide nylon 66 polymer. <i>Vacuum</i> , 2015, 121, 177-186.	3.5	8
22	High dose gamma radiation exposure upon Kapton-H polymer for modifications of optical, free volume, structural and chemical properties. <i>Optik</i> , 2020, 205, 164244.	2.9	6
23	Electronic energy transfer effects of Ti ⁹⁺ and S ⁹⁺ ions irradiations upon structural, optical and chemical properties of Kapton-H polymer. <i>Vacuum</i> , 2018, 157, 447-452.	3.5	4
24	SHI irradiation of metal doped zinc sulfide polymer nanocomposites synthesized using micro emulsion method. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 358, 258-262.	1.4	3
25	Radiation Physics and Chemistry of Polymeric Materials. Springer Series on Polymer and Composite Materials, 2019, , 35-68.	0.7	3
26	Impact of Swift Heavy Ions and Gamma Radiation upon Optical, Structural, and Chemical Properties of Polypropylene Polymer Films. <i>Advances in Polymer Technology</i> , 2015, 34, .	1.7	2
27	A Comparative Study of the Effects of Oxygen Ions Upon the Free Volume and Physico-Chemical Properties of Makrofol (KG & N) Polycarbonate. <i>Macromolecular Symposia</i> , 2015, 357, 86-98.	0.7	0