

Ashish K Agrawal

List of Publications by Year in descending order

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papers

726
citations

759233

12
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580821

25
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all docs

51
docs citations

51
times ranked

848
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of monetite reinforced into the chitosan-based lyophilized 3D scaffolds on physicochemical, mechanical, and osteogenic properties. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2023, 72, 1161-1178.	3.4	1
2	Digital light processing mediated 3D printing of biocomposite bone scaffolds: Physicochemical interactions and in vitro biocompatibility. <i>Polymer Composites</i> , 2022, 43, 3175-3188.	4.6	14
3	Magnetopriming effects on arsenic stress-induced morphological and physiological variations in soybean involving synchrotron imaging. <i>Physiologia Plantarum</i> , 2021, 173, 88-99.	5.2	12
4	Bio-extract amalgamated sodium alginate-cellulose nanofibres based 3D-sponges with interpenetrating BioPU coating as potential wound care scaffolds. <i>Materials Science and Engineering C</i> , 2021, 118, 111348.	7.3	7
5	Correlationship of Drug-Polymer Miscibility, Molecular Relaxation and Phase Behavior of Dipyridamole Amorphous Solid Dispersions. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 1470-1479.	3.3	8
6	Tailor-made design, fabrication and validation of SrO doped nanostructured ZTA ceramic Femoral head Acetabular socket liner assembly. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 114, 104178.	3.1	5
7	Chemical intervention for enhancing growth and reducing grain arsenic accumulation in rice. <i>Environmental Pollution</i> , 2021, 276, 116719.	7.5	22
8	Use of Synchrotron Phase-Sensitive Imaging for the Investigation of Magnetopriming and Solar UV-Exclusion Impact on Soybean (<i>Glycine max</i>) Leaves. <i>Cells</i> , 2021, 10, 1725.	4.1	8
9	The white beam station at imaging beamline BL-4, Indus-2. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 1639-1648.	2.4	2
10	X-ray tomography analysis reveals the influence of graphene on porous morphology of collagen cryogels. <i>Micron</i> , 2021, 150, 103127.	2.2	3
11	Monetite addition into gelatin based freeze-dried scaffolds for improved mechanical and osteogenic properties. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 065030.	3.3	13
12	Thermal behaviour of PPC and OPC-53 when exposed to extreme temperatures. <i>Advances in Cement Research</i> , 2020, 32, 358-370.	1.6	3
13	Characterisation of micro- and mesoporosity in Portland cement at elevated temperatures. <i>Magazine of Concrete Research</i> , 2020, 72, 304-313.	2.0	3
14	Evaluation of Influence of Finish line Design on Marginal Discrepancy of All-ceramics Lithium disilicate Crown restorations using 1/4-CT. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 802, 012003.	0.6	1
15	Feasibility of osteoporosis studies in zebra fish model using SR-microCT. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
16	Preparation and application of silica nanoparticles-Ocimum basilicum seeds bio-hybrid for the efficient immobilization of invertase enzyme. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 188, 110796.	5.0	14
17	Investigation of porosity, microstructure and mechanical properties of additively manufactured graphene reinforced AlSi10Mg composite. <i>Additive Manufacturing</i> , 2020, 33, 101095.	3.0	28
18	Demineralization of tooth enamel following radiation therapy; An in vitro microstructure and microhardness analysis. <i>Journal of Cancer Research and Therapeutics</i> , 2020, 16, 612-618.	0.9	11

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19	Esterified superhydrophobic nanofibrillated cellulose based aerogel for oil spill treatment. Carbohydrate Polymers, 2019, 226, 115286.	10.2	98
20	Synchrotron Microtomography of Polymer Derived Macroporous SiOC Ceramics. Advanced Engineering Materials, 2019, 21, 1900172.	3.5	6
21	Morphological characteristics and microstructure of kidney stones using synchrotron radiation μ CT reveal the mechanism of crystal growth and aggregation in mixed stones. PLoS ONE, 2019, 14, e0214003.	2.5	13
22	3D spatial distribution of ore mineral phases using high resolution synchrotron micro-computed tomography (μ CT) combined with optical microscopy. Applied Radiation and Isotopes, 2019, 148, 49-59.	1.5	3
23	Preparation and characterization of glass-ceramic reinforced alginate scaffolds for bone tissue engineering. Journal of Materials Research, 2019, 34, 3798-3809.	2.6	10
24	Gamma-irradiation-induced micro-structural variations in flame-retardant polyurethane foam using synchrotron X-ray micro-tomography. Journal of Synchrotron Radiation, 2019, 26, 1797-1807.	2.4	9
25	Phantom-based feasibility studies on phase-contrast mammography at Indian synchrotron facility indus-2. Journal of Medical Physics, 2019, 44, 39.	0.3	3
26	Macroporous SiOC Ceramics with Dense Struts by Positive Sponge Replication Technique. Advanced Engineering Materials, 2018, 20, 1700586.	3.5	17
27	Thorium-induced Anatomical and Histopathological Changes in Liver of Swiss Mice. Toxicology and Environmental Health Sciences, 2018, 10, 97-106.	2.1	7
28	Morphological and micro-tomographic study on evolution of struvite in synthetic urine infected with bacteria and investigation of its pathological biomineralization. PLoS ONE, 2018, 13, e0202306.	2.5	31
29	Low density and high strength nanofibrillated cellulose aerogel for thermal insulation application. Materials and Design, 2018, 158, 224-236.	7.0	167
30	Development of X-ray CCD camera based X-ray micro-CT system. Review of Scientific Instruments, 2017, 88, 023702.	1.3	8
31	Synchrotron-based phase-sensitive imaging of leaves grown from magneto-primed seeds of soybean. Journal of Synchrotron Radiation, 2017, 24, 232-239.	2.4	12
32	Cracking in a hot deformed SiC P /A6061 composite investigated using synchrotron microtomography. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 704, 292-301.	5.6	2
33	Surface plasmon band tailoring of plasmonic nanostructure under the effect of water radiolysis by synchrotron radiation. Journal of Synchrotron Radiation, 2017, 24, 1209-1217.	2.4	7
34	Synchrotron X-ray phase contrast imaging of leaf venation in soybean (<i>Glycine max</i>) after exclusion of solar UV (280-400 nm) radiation. Journal of Synchrotron Radiation, 2016, 23, 795-801.	2.4	7
35	Non-destructive evaluation of teeth restored with different composite resins using synchrotron based micro-imaging. Journal of X-Ray Science and Technology, 2016, 24, 119-132.	1.0	5
36	Monochromatic X-Ray Induced Novel Synthesis of Plasmonic Nanostructure for Photovoltaic Application. Scientific Reports, 2016, 6, 22394.	3.3	33

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37	Application of X-Ray CT for Non-destructive Characterization of Graphite Fuel-Tube. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	5
38	Application of X-ray micro-CT for micro-structural characterization of APCVD deposited SiC coatings on graphite conduit. Applied Radiation and Isotopes, 2016, 108, 133-142.	1.5	5
39	Differential Die-Away Analysis for detection of ²³⁵ U in metallic matrix. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 806, 1-4.	1.6	6
40	Micro-structural characterization of materials using synchrotron hard X-ray imaging techniques. AIP Conference Proceedings, 2015, , .	0.4	2
41	Design, development and first experiments on the X-ray imaging beamline at Indus-2 synchrotron source RRCAT, India. Journal of Synchrotron Radiation, 2015, 22, 1531-1539.	2.4	43
42	Associated particle technique in single-sided geometry for detection of explosives. Applied Physics Letters, 2015, 106, 124103.	3.3	5
43	Laser produced thin metallic planar mini-flyer generation using fiber optic plate. Laser and Particle Beams, 2013, 31, 289-300.	1.0	3
44	Development of neutron tomography and phase contrast imaging technique. , 2013, , .		1
45	Neutron imaging experiments at E-12 beam-line of CIRUS. , 2013, , .		0
46	Experimental investigations on melting of lead in a cuboid with constant heat flux boundary condition using thermal neutron radiography. International Journal of Thermal Sciences, 2012, 61, 15-27.	4.9	33
47	Neutron phase contrast imaging beamline at CIRUS, reactor, India. Applied Radiation and Isotopes, 2012, 70, 625-631.	1.5	3
48	Study of hydride blisters in Zr-alloy using neutron tomography. Journal of Nuclear Materials, 2012, 421, 47-53.	2.7	13
49	Study of pyro-carbon coated alumina kernel using mixed contrast transfer based X-ray phase retrieval technique. NDT and E International, 2011, 44, 41-46.	3.7	5
50	A variable-wavelength-based approach of phase retrieval for contrast transfer function based methods. Journal of Synchrotron Radiation, 2010, 17, 799-803.	2.4	5
51	Application of X-ray phase-contrast imaging technique in the study of pyrocarbon-coated zirconia kernels. NDT and E International, 2009, 42, 384-388.	3.7	4