

Rajendra K K Singh

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

5,749
citations

81434

41
h-index

93651

72
g-index

113
all docs

113
docs citations

113
times ranked

8897
citing authors

#	ARTICLE	IF	CITATIONS
1	Prevalence of bovine coronavirus infection in organized dairy farms of Central and North regions, India. <i>Biological Rhythm Research</i> , 2022, 53, 351-357.	0.4	3
2	Multifunctional GelMA platforms with nanomaterials for advanced tissue therapeutics. <i>Bioactive Materials</i> , 2022, 8, 267-295.	8.6	153
3	Surface-Engineered Hybrid Gelatin Methacryloyl with Nanoceria as Reactive Oxygen Species Responsive Matrixes for Bone Therapeutics. <i>ACS Applied Bio Materials</i> , 2022, 5, 1130-1138.	2.3	15
4	Carrier status of <i>Streptococcus suis</i> in the palatine tonsils of apparently healthy slaughtered pigs of India. <i>Journal of Immunoassay and Immunochemistry</i> , 2022, 43, 557-578.	0.5	2
5	Detection and immune cell response of natural maedi visna virus (MVV) infection in Indian sheep and goats. <i>Microbial Pathogenesis</i> , 2022, 165, 105467.	1.3	2
6	Tuning the properties of inorganic nanomaterials for theranostic applications in infectious diseases: Carbon nanotubes, quantum dots, graphene, and mesoporous carbon nanoparticles. , 2022, , 319-352.		2
7	Differential immunohistochemical expression of JSRV capsid antigen and tumour biomarkers in classical and atypical OPA: a comparative study. <i>Biological Rhythm Research</i> , 2021, 52, 946-956.	0.4	2
8	Occurrence and diagnosis of cryptosporidiosis in cattle calves with clinical diarrhoea. <i>Biological Rhythm Research</i> , 2021, 52, 717-725.	0.4	1
9	Advances in therapeutic and managemental approaches of bovine mastitis: a comprehensive review. <i>Veterinary Quarterly</i> , 2021, 41, 107-136.	3.0	127
10	Diverse Immunological Factors Influencing Pathogenesis in Patients with COVID-19: A Review on Viral Dissemination, Immunotherapeutic Options to Counter Cytokine Storm and Inflammatory Responses. <i>Pathogens</i> , 2021, 10, 565.	1.2	57
11	Oxford-AstraZeneca COVID-19 vaccine (AZD1222) is ideal for resource-constrained low- and middle-income countries. <i>Annals of Medicine and Surgery</i> , 2021, 65, 102264.	0.5	19
12	Therapeutic tissue regenerative nanohybrids self-assembled from bioactive inorganic core / chitosan shell nanounits. <i>Biomaterials</i> , 2021, 274, 120857.	5.7	18
13	Optimally dosed nanoceria attenuates osteoarthritic degeneration of joint cartilage and subchondral bone. <i>Chemical Engineering Journal</i> , 2021, 422, 130066.	6.6	17
14	ZnO incorporated high phosphate bioactive glasses for guided bone regeneration implants: enhancement of in vitro bioactivity and antibacterial activity. <i>Journal of Materials Research and Technology</i> , 2021, 15, 633-646.	2.6	24
15	Pathotyping of Newcastle Disease Virus: a Novel Single BsaHI Digestion Method of Detection and Differentiation of Avirulent Strains (Lentogenic and Mesogenic Vaccine Strains) from Virulent Virus. <i>Microbiology Spectrum</i> , 2021, 9, e0098921.	1.2	2
16	Epidemiological study of <i>Mannheimia haemolytica</i> infection in the sheep and goats population, India. <i>Biological Rhythm Research</i> , 2020, 51, 869-878.	0.4	1
17	Patho-Epidemiological study of jaagsiekte sheep retrovirus infection in the sheep and goats population, India. <i>Biological Rhythm Research</i> , 2020, 51, 1182-1196.	0.4	3
18	Immunohistochemical and molecular detection of natural cases of bovine rotavirus and coronavirus infection causing enteritis in dairy calves. <i>Microbial Pathogenesis</i> , 2020, 138, 103814.	1.3	23

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19	Neuropathology mediated through caspase dependent extrinsic pathway in goat kids naturally infected with PPRV. <i>Microbial Pathogenesis</i> , 2020, 140, 103949.	1.3	5
20	Geriatric Population During the COVID-19 Pandemic: Problems, Considerations, Exigencies, and Beyond. <i>Frontiers in Public Health</i> , 2020, 8, 574198.	1.3	61
21	COVID-19 in the elderly people and advances in vaccination approaches. <i>Human Vaccines and Immunotherapeutics</i> , 2020, 16, 2938-2943.	1.4	37
22	“Hard” ceramics for “Soft” tissue engineering: Paradox or opportunity?. <i>Acta Biomaterialia</i> , 2020, 115, 1-28.	4.1	63
23	A Comparative Study of Pathology and Host Immune Response Induced by Very Virulent Infectious Bursal Disease Virus in Experimentally Infected Chickens of Aseel and White Leghorn Breeds. <i>Vaccines</i> , 2020, 8, 627.	2.1	3
24	COVID-19: animals, veterinary and zoonotic links. <i>Veterinary Quarterly</i> , 2020, 40, 169-182.	3.0	218
25	An update on SARS-CoV-2/COVID-19 with particular reference to its clinical pathology, pathogenesis, immunopathology and mitigation strategies. <i>Travel Medicine and Infectious Disease</i> , 2020, 37, 101755.	1.5	131
26	Coating biopolymer nanofibers with carbon nanotubes accelerates tissue healing and bone regeneration through orchestrated cell- and tissue-regulatory responses. <i>Acta Biomaterialia</i> , 2020, 108, 97-110.	4.1	75
27	Revascularization and limb salvage following critical limb ischemia by nanoceria-induced Ref-1/APE1-dependent angiogenesis. <i>Biomaterials</i> , 2020, 242, 119919.	5.7	52
28	Label-Free Fluorescent Mesoporous Bioglass for Drug Delivery, Optical Triple-Mode Imaging, and Photothermal/Photodynamic Synergistic Cancer Therapy. <i>ACS Applied Bio Materials</i> , 2020, 3, 2218-2229.	2.3	33
29	Localization of <i>Pasteurella multocida</i> antigens in the brains of pigs naturally infected with Pasteurellosis revealing a newer aspect of pathogenesis. <i>Microbial Pathogenesis</i> , 2020, 140, 103968.	1.3	8
30	Titanium incorporated Zinc-Phosphate bioactive glasses for bone tissue repair and regeneration: Impact of Ti ⁴⁺ on physico-mechanical and in vitro bioactivity. <i>Ceramics International</i> , 2019, 45, 23715-23727.	2.3	25
31	Technological interventions and advances in the diagnosis of intramammary infections in animals with emphasis on bovine population—a review. <i>Veterinary Quarterly</i> , 2019, 39, 76-94.	3.0	31
32	Combined Effects of Nanoroughness and Ions Produced by Electrodeposition of Mesoporous Bioglass Nanoparticle for Bone Regeneration. <i>ACS Applied Bio Materials</i> , 2019, 2, 5190-5203.	2.3	29
33	Immunomodulatory Potential of <i>Tinospora cordifolia</i> and CpG ODN (TLR21 Agonist) against the Very Virulent, Infectious Bursal Disease Virus in SPF Chicks. <i>Vaccines</i> , 2019, 7, 106.	2.1	28
34	Advances in nanoparticle development for improved therapeutics delivery: nanoscale topographical aspect. <i>Journal of Tissue Engineering</i> , 2019, 10, 204173141987752.	2.3	64
35	Epidemiological study of naturally occurring bovine rotavirus infection in organized dairy farms, India. <i>Biological Rhythm Research</i> , 2019, , 1-9.	0.4	1
36	Nipah virus: epidemiology, pathology, immunobiology and advances in diagnosis, vaccine designing and control strategies—a comprehensive review. <i>Veterinary Quarterly</i> , 2019, 39, 26-55.	3.0	124

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37	Carbon-based nanomaterials as an emerging platform for theranostics. <i>Materials Horizons</i> , 2019, 6, 434-469.	6.4	310
38	Combinatory Cancer Therapeutics with Nanoceria-Capped Mesoporous Silica Nanocarriers through pH-triggered Drug Release and Redox Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 288-299.	4.0	52
39	Electrophoretic coatings of hydroxyapatite with various nanocrystal shapes. <i>Materials Letters</i> , 2019, 234, 148-154.	1.3	36
40	Molecular epidemiological analysis of wild animal rabies isolates from India. <i>Veterinary World</i> , 2019, 12, 352-357.	0.7	5
41	Japanese encephalitis virus-induced neuropathology in mouse model infected through the conjunctival route. <i>Indian Journal of Medical Research</i> , 2019, 150, 498.	0.4	5
42	Pathological and molecular investigation of velogenic viscerotropic Newcastle disease outbreak in a vaccinated chicken flocks. <i>VirusDisease</i> , 2018, 29, 180-191.	1.0	17
43	Nanocements produced from mesoporous bioactive glass nanoparticles. <i>Biomaterials</i> , 2018, 162, 183-199.	5.7	69
44	Pathological and molecular studies of the renal trematode <i>Paratanaisia bragai</i> in Indian peafowls (<i>Pavo cristatus</i>). <i>Acta Parasitologica</i> , 2018, 63, 214-219.	0.4	5
45	A Comprehensive Review on Equine Influenza Virus: Etiology, Epidemiology, Pathobiology, Advances in Developing Diagnostics, Vaccines, and Control Strategies. <i>Frontiers in Microbiology</i> , 2018, 9, 1941.	1.5	39
46	Cytological and immunocytological detection and differentiation of Marek's disease and lymphoid leucosis in poultry. <i>VirusDisease</i> , 2018, 29, 349-354.	1.0	1
47	Molecular epidemiology of rabies virus circulating in domestic animals in India. <i>VirusDisease</i> , 2018, 29, 362-368.	1.0	9
48	Advances in Designing and Developing Vaccines, Drugs, and Therapies to Counter Ebola Virus. <i>Frontiers in Immunology</i> , 2018, 9, 1803.	2.2	65
49	Evolution of magnetic and bone mineral phases in heat-treated bioactive glass containing zinc and iron oxides. <i>International Journal of Applied Glass Science</i> , 2017, 8, 105-115.	1.0	1
50	Progress in Nanotheranostics Based on Mesoporous Silica Nanomaterial Platforms. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10309-10337.	4.0	111
51	Immunomodulatory and prophylactic efficacy of herbal extracts against experimentally induced chicken infectious anaemia in chicks: assessing the viral load and cell mediated immunity. <i>VirusDisease</i> , 2017, 28, 115-120.	1.0	23
52	Silica-based multifunctional nanodelivery systems toward regenerative medicine. <i>Materials Horizons</i> , 2017, 4, 772-799.	6.4	66
53	Optical imaging and anticancer chemotherapy through carbon dot created hollow mesoporous silica nanoparticles. <i>Acta Biomaterialia</i> , 2017, 55, 466-480.	4.1	67
54	Nano-shape varied cerium oxide nanomaterials rescue human dental stem cells from oxidative insult through intracellular or extracellular actions. <i>Acta Biomaterialia</i> , 2017, 50, 142-153.	4.1	58

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55	Inhibition of MEK-ERK1/2-MAP kinase signalling pathway reduces rabies virus induced pathologies in mouse model. <i>Microbial Pathogenesis</i> , 2017, 112, 38-49.	1.3	11
56	Rabies—Epidemiology, pathogenesis, public health concerns and advances in diagnosis and control: a comprehensive review. <i>Veterinary Quarterly</i> , 2017, 37, 212-251.	3.0	145
57	Pathology and polymerase chain reaction detection of ovine progressive pneumonia (maedi) cases in slaughtered sheep in India. <i>Veterinary World</i> , 2017, 10, 1401-1406.	0.7	7
58	Molecular characterization, isolation, pathology and pathotyping of peafowl (<i>Pavo cristatus</i>) origin Newcastle disease virus isolates recovered from disease outbreaks in three states of India. <i>Avian Pathology</i> , 2016, 45, 674-682.	0.8	13
59	Magnetic nanofiber scaffold-induced stimulation of odontogenesis and pro-angiogenesis of human dental pulp cells through Wnt/MAPK/NF- κ B pathways. <i>Dental Materials</i> , 2016, 32, 1301-1311.	1.6	27
60	C-Dot Generated Bioactive Organosilica Nanospheres in Theranostics: Multicolor Luminescent and Photothermal Properties Combined with Drug Delivery Capacity. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 24433-24444.	4.0	44
61	Delivery of Small Genetic Molecules through Hollow Porous Nanoparticles Silences Target Gene and in Turn Stimulates Osteoblastic Differentiation. <i>Particle and Particle Systems Characterization</i> , 2016, 33, 878-886.	1.2	5
62	Osteopromoting Reservoir of Stem Cells: Bioactive Mesoporous Nanocarrier/Collagen Gel through Slow-Releasing FGF18 and the Activated BMP Signaling. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27573-27584.	4.0	35
63	Nanohybrid Electro-Coatings Toward Therapeutic Implants with Controlled Drug Delivery Potential for Bone Regeneration. <i>Journal of Biomedical Nanotechnology</i> , 2016, 12, 1876-1889.	0.5	10
64	<i>Baruscapillaria obsignata</i> : a serious cause of enteropathy and high mortality in turkeys (<i>meleagris gallopavo</i>). <i>Veterinary Quarterly</i> , 2016, 36, 145-149.	3.0	0
65	Sol-gel based materials for biomedical applications. <i>Progress in Materials Science</i> , 2016, 77, 1-79.	16.0	608
66	Triple Hit with Drug Carriers: pH- and Temperature-Responsive Theranostics for Multimodal Chemo- and Photothermal Therapy and Diagnostic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8967-8979.	4.0	93
67	Gene delivery nanocarriers of bioactive glass with unique potential to load BMP2 plasmid DNA and to internalize into mesenchymal stem cells for osteogenesis and bone regeneration. <i>Nanoscale</i> , 2016, 8, 8300-8311.	2.8	77
68	Effect of nicotinic acetylcholine receptor alpha 1 (nAChR α 1) peptides on rabies virus infection in neuronal cells. <i>Neuropeptides</i> , 2016, 57, 59-64.	0.9	6
69	Inhibition of osteoclastogenesis through siRNA delivery with tunable mesoporous bioactive nanocarriers. <i>Acta Biomaterialia</i> , 2016, 29, 352-364.	4.1	52
70	Biocompatible Mesoporous Nanotubular Structured Surface to Control Cell Behaviors and Deliver Bioactive Molecules. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 26850-26859.	4.0	19
71	Therapeutic-designed electrospun bone scaffolds: Mesoporous bioactive nanocarriers in hollow fiber composites to sequentially deliver dual growth factors. <i>Acta Biomaterialia</i> , 2015, 16, 103-116.	4.1	130
72	Smart multifunctional drug delivery towards anticancer therapy harmonized in mesoporous nanoparticles. <i>Nanoscale</i> , 2015, 7, 14191-14216.	2.8	153

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73	Primary chicken embryo fibroblasts seeded acellular dermal matrix (3-D ADM) improve regeneration of full thickness skin wounds in rats. <i>Tissue and Cell</i> , 2015, 47, 311-322.	1.0	24
74	Mesoporous Silica-Layered Biopolymer Hybrid Nanofibrous Scaffold: A Novel Nanobiomatrix Platform for Therapeutics Delivery and Bone Regeneration. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8088-8098.	4.0	87
75	Comparative histologic and immunologic evaluation of 1,4-butanediol diglycidyl ether crosslinked versus noncrosslinked acellular swim bladder matrix for healing of full-thickness skin wounds in rabbits. <i>Journal of Surgical Research</i> , 2015, 197, 436-446.	0.8	17
76	Core-shell fibrous stem cell carriers incorporating osteogenic nanoparticulate cues for bone tissue engineering. <i>Acta Biomaterialia</i> , 2015, 28, 183-192.	4.1	29
77	Preparation of Self-Activated Fluorescence Mesoporous Silica Hollow Nanoellipsoids for Theranostics. <i>Langmuir</i> , 2015, 31, 11344-11352.	1.6	24
78	Phylogenetic analysis of Indian rabies virus isolates targeting the complete glycoprotein gene. <i>Infection, Genetics and Evolution</i> , 2015, 36, 333-338.	1.0	11
79	Molecular and immunogenic characterization of BHK-21 cell line adapted CVS-11 strain of rabies virus and future prospect in vaccination strategy. <i>VirusDisease</i> , 2015, 26, 288-296.	1.0	9
80	Pathology of Equine Influenza virus (H3N8) in Murine Model. <i>PLoS ONE</i> , 2015, 10, e0143094.	1.1	9
81	Evolution of Magnetic Properties of CaO - P_2O_5 - Na_2O - Fe_2O_3 Glass Upon Heat Treatment. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 1-4.		
82	Novel Hybrid Nanorod Carriers of Fluorescent Hydroxyapatite Shelled with Mesoporous Silica Effective for Drug Delivery and Cell Imaging. <i>Journal of the American Ceramic Society</i> , 2014, 97, 3071-3076.	1.9	23
83	Nanostructured Biointerfacing of Metals with Carbon Nanotube/Chitosan Hybrids by Electrodeposition for Cell Stimulation and Therapeutics Delivery. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20214-20224.	4.0	42
84	Effect of IGF-1 and Uncultured Autologous Bone-Marrow-Derived Mononuclear Cells on Repair of Osteochondral Defect in Rabbits. <i>Cartilage</i> , 2014, 5, 43-54.	1.4	24
85	Luminescent mesoporous nanoreservoirs for the effective loading and intracellular delivery of therapeutic drugs. <i>Acta Biomaterialia</i> , 2014, 10, 1431-1442.	4.1	35
86	Multifunctional Hybrid Nanocarrier: Magnetic CNTs Ensheathed with Mesoporous Silica for Drug Delivery and Imaging System. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 2201-2208.	4.0	101
87	Hybrid magnetic scaffolds of gelatin-siloxane incorporated with magnetite nanoparticles effective for bone tissue engineering. <i>RSC Advances</i> , 2014, 4, 40841-40851.	1.7	47
88	Development of biocompatible apatite nanorod-based drug-delivery system with in situ fluorescence imaging capacity. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2039.	2.9	45
89	Magnetic scaffolds of polycaprolactone with functionalized magnetite nanoparticles: physicochemical, mechanical, and biological properties effective for bone regeneration. <i>RSC Advances</i> , 2014, 4, 17325-17336.	1.7	97
90	Tailoring solubility and drug release from electrophoretic deposited chitosan-gelatin films on titanium. <i>Surface and Coatings Technology</i> , 2014, 242, 232-236.	2.2	39

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91	Strategies for osteochondral repair: Focus on scaffolds. Journal of Tissue Engineering, 2014, 5, 204173141454185.	2.3	89
92	Potential of Magnetic Nanofiber Scaffolds with Mechanical and Biological Properties Applicable for Bone Regeneration. PLoS ONE, 2014, 9, e91584.	1.1	147
93	Inorganic nanobiomaterial drug carriers for medicine. Tissue Engineering and Regenerative Medicine, 2013, 10, 296-309.	1.6	29
94	Investigations on copper chloride doped polyaniline composites as efficient electrode materials for supercapacitor applications. Journal of Materials Science: Materials in Electronics, 2013, 24, 576-585.	1.1	38
95	Mesoporous silica tubular nanocarriers for the delivery of therapeutic molecules. RSC Advances, 2013, 3, 8692.	1.7	21
96	Silica-based mesoporous nanoparticles for controlled drug delivery. Journal of Tissue Engineering, 2013, 4, 204173141350335.	2.3	256
97	Chitosanâ€“nanobioactive glass electrophoretic coatings with bone regenerative and drug delivering potential. Journal of Materials Chemistry, 2012, 22, 24945.	6.7	85
98	Biocompatible magnetite nanoparticles with varying silicaâ€“coating layer for use in biomedicine: Physicochemical and magnetic properties, and cellular compatibility. Journal of Biomedical Materials Research - Part A, 2012, 100A, 1734-1742.	2.1	101
99	A novel preparation of magnetic hydroxyapatite nanotubes. Materials Letters, 2012, 75, 130-133.	1.3	33
100	Magnetic properties of bioactive glass-ceramics containing nanocrystalline zinc ferrite. Journal of Magnetism and Magnetic Materials, 2011, 323, 330-333.	1.0	39
101	MAGNETIC PROPERTIES STUDY OF SOLâ€“GEL SYNTHESIZED COBALT-DOPED ANATASE TiO_2 NANOPOWDER. International Journal of Nanoscience, 2011, 10, 581-585.	0.4	0
102	EPR and magnetic susceptibility studies of iron ions in ZnO â€“ Fe_2O_3 â€“ SiO_2 â€“ CaO â€“ P_2O_5 â€“ Na_2O glasses. Journal of Magnetism and Magnetic Materials, 2010, 322, 2018-2022.	1.0	27
103	Apatite-forming ability and magnetic properties of glass-ceramics containing zinc ferrite and calcium sodium phosphate phases. Materials Science and Engineering C, 2010, 30, 1100-1106.	3.8	29
104	Bioactivity of SiO_2 â€“ CaO â€“ P_2O_5 â€“ Na_2O glasses containing zincâ€“iron oxide. Applied Surface Science, 2010, 256, 1725-1730.	3.1	42
105	Bioactivity of ferrimagnetic MgO â€“ CaO â€“ SiO_2 â€“ P_2O_5 â€“ Fe_2O_3 glass-ceramics. Ceramics International, 2010, 36, 283-290.	2.3	57
106	Evaluation of CaO â€“ SiO_2 â€“ P_2O_5 â€“ Na_2O â€“ Fe_2O_3 bioglass-ceramics for hyperthermia application. Journal of Materials Science: Materials in Medicine, 2009, 20, 147-151.	1.7	34
107	EPR and magnetic properties of MgO â€“ CaO â€“ SiO_2 â€“ P_2O_5 â€“ CaF_2 â€“ Fe_2O_3 glass-ceramics. Journal of Magnetism and Magnetic Materials, 2009, 321, 2749-2752.	1.0	19
108	In vitro evaluation of bioactivity of CaO â€“ SiO_2 â€“ P_2O_5 â€“ Na_2O â€“ Fe_2O_3 glasses. Applied Surface Science, 2009, 255, 6827-6831.	3.1	43

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109	Magnetic and structural properties of CaO-SiO ₂ -P ₂ O ₅ -Na ₂ O-Fe ₂ O ₃ glass ceramics. Journal of Magnetism and Magnetic Materials, 2008, 320, 1352-1356.	1.0	57
110	Influence of iron ions on the magnetic properties of CaO-SiO ₂ -P ₂ O ₅ -Na ₂ O-Fe ₂ O ₃ glass ceramics. Solid State Communications, 2008, 146, 25-29.	0.9	20
111	Electron spin resonance and magnetic studies on CaO-SiO ₂ -P ₂ O ₅ -Na ₂ O-Fe ₂ O ₃ glasses. Journal of Non-Crystalline Solids, 2008, 354, 3166-3170.	1.5	39
112	Evolution of Magnetism in CaO-SiO ₂ -P ₂ O ₅ -Na ₂ O-Fe ₂ O ₃ Bioglass Ceramics. Materials Science Forum, 0, 587-588, 171-174.		