Deepak Rawtani

List of Publications by Year
in descending order

90	3,461	236612	149479
papers	citations	25 h-index	56 g-index

108	108	108	3844
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Environmental perspective of COVID-19. Science of the Total Environment, 2020, 728, 138870.	3.9	637
2	Bioindicators: the natural indicator of environmental pollution. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2016, 9, 110-118.	1.1	385
3	Hyaluronic acid: A review on its biology, aspects of drug delivery, route of administrations and a special emphasis on its approved marketed products and recent clinical studies. International Journal of Biological Macromolecules, 2020, 151, 1012-1029.	3.6	215
4	Nanotechnology-based recent approaches for sensing and remediation of pesticides. Journal of Environmental Management, 2018, 206, 749-762.	3.8	214
5	Strategies for Nitrate removal from aqueous environment using Nanotechnology: A Review. Journal of Water Process Engineering, 2018, 21, 84-95.	2.6	167
6	Surface modified halloysite nanotubes: A flexible interface for biological, environmental and catalytic applications. Advances in Colloid and Interface Science, 2018, 261, 82-101.	7.0	154
7	Recent strategies for the removal of iron from water: A review. Journal of Water Process Engineering, 2017, 19, 291-304.	2.6	135
8	Halloysite nanotubes - An efficient â€˜nano-supportâ€™ for the immobilization of Î±-amylase. Applied Clay Science, 2017, 136, 184-191.	2.6	108
9	Halloysite nanotubes as a natureâ€™s boon for biomedical applications. Nanobiomedicine, 2019, 6, 184954351986362.	4.4	90
10	Functionalized nanomaterial for forensic sample analysis. TrAC - Trends in Analytical Chemistry, 2019, 120, 115661.	5.8	88
11	Development of a novel â€˜nanocarrierâ€™ system based on Halloysite Nanotubes to overcome the complexation of ciprofloxacin with iron: An in vitro approach. Applied Clay Science, 2017, 150, 293-302.	2.6	85
12	Nano-interfacial decoration of Halloysite Nanotubes for the development of antimicrobial nanocomposites. Advances in Colloid and Interface Science, 2020, 275, 102063.	7.0	81
13	A newly emerging trend of chitosan-based sensing platform for the organophosphate pesticide detection using Acetylcholinesterase- a review. Trends in Food Science and Technology, 2019, 85, 78-91.	7.8	80
14	Physicochemical and biological assessment of silver nanoparticles immobilized Halloysite nanotubes-based resin composite for dental applications. Heliyon, 2020, 6, e03601.	1.4	55
15	Emerging Strategies and Applications of Layer-by-Layer Self-Assembly. Nanobiomedicine, 2014, 1, 8.	4.4	44
16	Formulation and optimization of long acting dual niosomes using Box-Behnken experimental design method for combinative delivery of Ethionamide and D-cycloserine in Tuberculosis treatment. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 565, 131-142.	2.3	40
17	Halloysite as support matrices: a review. Emerging Materials Research, 2012, 1, 212-220.	0.4	37
18	Nanotechnology-based materials as emerging trends for dental applications. Reviews on Advanced Materials Science, 2021, 60, 173-189.	1.4	36

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19	Chitosan functionalized Halloysite Nanotubes as a receptive surface for laccase and copper to perform degradation of chlorpyrifos in aqueous environment. International Journal of Biological Macromolecules, 2021, 191, 1046-1055.	3.6	36
20	Design, development and in-vitro/in-vivo evaluation of intranasally delivered Rivastigmine and N-Acetyl Cysteine loaded bifunctional niosomes for applications in combinative treatment of Alzheimerâ€™s disease. European Journal of Pharmaceutics and Biopharmaceutics, 2021, 163, 1-15.	2.0	35
21	Assessment of Drinking Water Quality and its Health Effects in Rural Areas of Harij Taluka, Patan District of Northern Gujarat. Environmental Claims Journal, 2016, 28, 223-246.	0.5	34
22	Recent advances in analytical, bioanalytical and miscellaneous applications of green nanomaterial. TrAC - Trends in Analytical Chemistry, 2020, 133, 116109.	5.8	33
23	Analysis and assessment of ground water quality in Satlasana Taluka, Mehsana district, Gujarat, India through application of water quality indices. Groundwater for Sustainable Development, 2020, 10, 100321.	2.3	32
24	A comprehensive approach to antifouling strategies in desalination, marine environment, and wastewater treatment. Chemical Physics Impact, 2021, 2, 100008.	1.7	29
25	Application of Box-Behnken Design in the Preparation, Optimization, and InÂVitro Evaluation of Self-Assemblyâ€“Based Tamoxifen- and Doxorubicin-Loaded and Dual Drugâ€“Loaded Niosomes for Combinatorial Breast Cancer Treatment. Journal of Pharmaceutical Sciences, 2019, 108, 2643-2653.	1.6	28
26	Interaction Behavior of DNA with Halloysite Nanotubeâ€“Silver Nanoparticle-Based Composite. BioNanoScience, 2013, 3, 73-78.	1.5	27
27	Functionalized nanomaterials driven antimicrobial food packaging: A technological advancement in food science. Food Control, 2022, 131, 108469.	2.8	27
28	Multifarious applications of atomic force microscopy in forensic science investigations. Forensic Science International, 2017, 273, 53-63.	1.3	26
29	Fabrication routes for one-dimensional nanostructures via block copolymers. Nano Convergence, 2017, 4, 12.	6.3	26
30	Physicochemical and biological assessment of flowable resin composites incorporated with farnesol loaded halloysite nanotubes for dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103675.	1.5	25
31	Hemp concrete: carbon-negative construction. Emerging Materials Research, 2016, 5, 240-247.	0.4	24
32	â€œInsects as an Indicator for Environmental Pollutionâ€• Environmental Claims Journal, 2021, 33, 161-181.	0.5	24
33	A Study of the Behavior of HNT with DNA Intercalator Acridine Orange. BioNanoScience, 2013, 3, 52-57.	1.5	23
34	Silanized halloysite nanotubes as â€˜nano-platformâ€™ for the complexation and removal of Fe (II) and Fe (III) ions from aqueous environment. Separation and Purification Technology, 2022, 293, 121141.	3.9	22
35	Removal of basic dyes auramine yellow and auramine O by halloysite nanotubes. International Journal of Environment and Waste Management, 2016, 17, 44.	0.2	21
36	Recent advancements in practices related to desalination by means of nanotechnology. Chemical Physics Impact, 2021, 2, 100025.	1.7	21

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37	Study the Interaction of DNA with Halloysite Nanotube-Gold Nanoparticle Based Composite. Journal of Bionanoscience, 2012, 6, 95-98.	0.4	20
38	Development of Chlorhexidine Loaded Halloysite Nanotube Based Experimental Resin Composite with Enhanced Physico-Mechanical and Biological Properties for Dental Applications. Journal of Composites Science, 2020, 4, 81.	1.4	17
39	Understanding intricacies of bioinspired organic-inorganic hybrid nanoflowers: A quest to achieve enhanced biomolecules immobilization for biocatalytic, biosensing and bioremediation applications. Advances in Colloid and Interface Science, 2021, 295, 102484.	7.0	17
40	Charge transfer in DNA and its diverse modelling approaches. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2016, 9, 214-225.	1.1	14
41	Cardiovascular drug delivery: A review on the recent advancements in nanocarrier based drug delivery with a brief emphasis on the novel use of magnetoliposomes and extracellular vesicles and ongoing clinical trial research. Journal of Drug Delivery Science and Technology, 2020, 60, 102029.	1.4	14
42	Development of Criticality Index to Assess Water Quality in Major Rivers of Gujarat. Environmental Claims Journal, 2016, 28, 320-345.	0.5	13
43	Rural environment study for water from different sources in cluster of villages in Mehsana district of Gujarat. Environmental Monitoring and Assessment, 2018, 190, 10.	1.3	13
44	Food forensics: Techniques for authenticity determination of food products. Forensic Science International, 2022, 333, 111243.	1.3	12
45	Antimicrobial activity of chitosan film containing nanocomposite of Trachyspermum ammi (ajwain) seed oil loaded Halloysite nanotubes against foodborne pathogenic microorganisms. Applied Clay Science, 2022, 226, 106554.	2.6	12
46	Assessment of river water quality through application of indices: a case study River Sabarmati, Gujarat, India. Sustainable Water Resources Management, 2020, 6, 1.	1.0	11
47	Aspects of Nanoelectronics in Materials Development. , 0, , .		10
48	Pollution Indicators at Stretches of the Mahisagar River in Gujarat India. Environmental Claims Journal, 2020, 32, 310-322.	0.5	9
49	Behavior of malachite green with different adsorption matrices. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2013, 7, 99-111.	1.1	8
50	INTERACTION OF METHOTREXATE WITH DNA USING GOLD NANOPARTICLES AS A PROBE. Instrumentation Science and Technology, 2014, 42, 308-319.	0.9	8
51	Niosomes as cutting edge nanocarrier for controlled and targeted delivery of essential oils and biomolecules. Journal of Drug Delivery Science and Technology, 2022, 73, 103438.	1.4	8
52	Recent Developments in Bio-Nanoelectronics Devices: A Review. Journal of Bionanoscience, 2016, 10, 81-93.	0.4	6
53	Development, characterization and in vitroâ€“in vivo evaluation of Farnesol loaded niosomal gel for applications in oral candidiasis treatment. Heliyon, 2021, 7, e07968.	1.4	6
54	Halloysite Nanotubes: An â€˜Aluminosilicate Nanosupportâ€™ for Energy and Environmental Applications. Green Energy and Technology, 2020, , 125-144.	0.4	6

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55	Functionalized halloysite nanotubes: an â€œecofriendlyâ€•nanomaterial in environmental industry. , 2020, , 417-433.		6
56	Future Aspects of Halloysite Nanotubes in Forensic Investigations. Journal of Nanomedicine Research, 2017, 6, .	1.8	6
57	Modern digital techniques for monitoring and analysis. , 2022, , 115-130.		6
58	Environmental impact of COVID-19. , 2022, , 203-216.		5
59	Risk assessment of selected pharmaceuticals on wildlife with nanomaterials based aptasensors. Science of the Total Environment, 2022, 836, 155622.	3.9	5
60	Azeotropic mixture used for development and validation of Lornoxicam in bulk and its tablet dosage form by spectrophotometric method. Journal of Pharmaceutical Analysis, 2012, 2, 306-309.	2.4	4
61	Sewage Water: From Waste to Resource â€“ A Review. Environmental Claims Journal, 2021, 33, 108-135.	0.5	4
62	Sewage Water: From Waste to Resource â€“ A Review. Environmental Claims Journal, 2020, , 1-28.	0.5	3
63	Sensor-based techniques for detection of COVID-19. , 2022, , 95-114.		3
64	Challenges and future aspects of COVID-19 monitoring and detection. , 2022, , 131-150.		3
65	Hyphenated techniques for forensic sample analysis. , 2021, , 189-211.		2
66	Optical microscopy for forensic samples. , 2021, , 213-234.		2
67	Energy dispersive X-ray (EDX) coupled microscopy in forensic science. , 2021, , 281-300.		2
68	Impact of waste generated due to COVID-19. , 2022, , 251-276.		2
69	Impact of Seasonal Changes in the Abundance of Benthic Macroinvertebrates & Physico-Chemical Conditions of a Major River in Western India. Environmental Claims Journal, 2023, 35, 157-183.	0.5	2
70	Raman spectroscopy in forensic science. , 2021, , 109-128.		1
71	Detection and mineralization of pesticides using silver nanoparticles. , 2021, , 383-406.		1
72	NMR spectroscopy for forensic samples. , 2021, , 91-107.		0

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73	HPTLC in forensic science. , 2021, , 169-187.		0
74	UV-visible and fluorescence spectroscopy for forensic samples. , 2021, , 37-54.		0
75	Concluding notes. , 2021, , 425-429.		0
76	Atomic force microscopy for forensic samples. , 2021, , 259-279.		0
77	X-ray diffraction for forensic samples. , 2021, , 321-338.		0
78	Ethics and legal issues of forensic analysis techniques. , 2021, , 381-394.		0
79	Gas chromatography in forensic science. , 2021, , 149-167.		0
80	Forensic sampling and sample preparation techniques. , 2021, , 17-35.		0
81	HPLC for the toxicological analysis of forensic samples. , 2021, , 129-147.		0
82	Nanotechnology in forensic science. , 2021, , 359-379.		0
83	FTIR and NIR spectroscopy in forensic science. , 2021, , 55-73.		0
84	Accreditations for forensic science laboratories. , 2021, , 395-408.		0
85	Mass spectrometry in forensic chemistry. , 2021, , 301-320.		0
86	Quality control and quality assurance in forensic science laboratories. , 2021, , 409-423.		0
87	Introduction to chemical analysis of forensic samples. , 2021, , 1-16.		0
88	Lab-on-chip devices. , 2021, , 339-357.		0
89	Nanocellulose in the sports industry. , 2022, , 133-156.		0
90	Surface engineered nanomaterials: An emerging trend for futuristic forensic science. Current Forensic Science, 2022, 01, .	0.1	0