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Department of Nanotechnology

S. No.	Authors	Title	Journal	Impact Factor	Year	Volume	Page no.	Role	ISSN No.
Research Publications from Last Three Years In SCI Journals									
1	Pooja Rani , Gurjot Kaur ,K Venkateswara Rao, Jagpreet singh , Mohit Rawat	Impact of green synthesized metal oxide nanoparticles on seed germination and seedling growth of Vigna Radiata (mung bean) and Cajanus Cajan (red gram)	Journal of Inorganic and Organometallic Polymers and Materials	1.6	2020		Accepted	Corresponding author	1574-1451
2	Jagpreet Singh, Sukhmeen Kaur, Jechan Lee, Akansha Mehta, Sanjeev Kumar, Ki-Hyun Kim, Soumen Basu, Mohit Rawat	Highly Fluorescent Carbon Dots Derived from Mangifera indica Leaves for Selective Detection of Metal Ions	Science of the Total Environment	5.59	2020	https://doi.org/10.1016/j.scitotenv.2020.137604		Corresponding author	0048-9697
3	Karanveer Singh, Deepak Kukkar, Ravinder Singh, Preeti Kukkar, Nardev Bajaj, Jagpreet Singh, Mohit Rawat , Akshay Kumar, Ki-Hyun Kim	In situ green synthesis of Au/Ag nanostructures on a metal-organic framework surface for photocatalytic reduction of p-nitrophenol	Journal of Industrial and Engineering Chemistry	4.98	2020	81	196-205	Co-author	1226-086X
4	Jagpreet Singh, Vanish Kumar, Sukhwinder Singh Jolly, Ki-Hyun Kim, Mohit Rawat , Deepak Kukkar, Yiu Fai Tsang	Biogenic synthesis of silver nanoparticles and its photocatalytic applications for removal of organic pollutants in water	Journal of Industrial and Engineering Chemistry	4.98	2019	80	247-257	Corresponding author	1226-086X
5	Harpreet Kaur, Vikas Goyal, Jagpreet Singh, Sanjeev Kumar, Mohit Rawat	Biomolecules encapsulated TiO ₂ nano-cubes using Tinospora cordifolia for photodegradation of a textile dye	Micro and Nano Letters	0.98	2019	14	1229 – 1232	Corresponding author	1750-0443
6	Jagpreet Singh, Vanish Kumar, Ki-Hyun Kim, Mohit Rawat	Biogenic synthesis of copper oxide nanoparticles using plant extract and its prodigious potential for photocatalytic degradation of dyes	Environmental research	5.02	2019	177	108569	Corresponding author	0013-9351
7	Jagpreet Singh, Harpreet Kaur, Deepak Kukkar, Vineet Kumar Mukamia, Sanjeev Kumar, Mohit Rawat	Green synthesis of SnO ₂ NPs for solar light induced photocatalytic applications	Materials Research Express	1.49	2019	https://doi.org/10.1088/2053-1591/ab4412		Corresponding author	2053-1591
8	Jasneet Kaur, Jagpreet Singh, Mohit Rawat	An efficient and blistering reduction of 4-nitrophenol by green synthesized silver nanoparticles	SN Applied Science		2019	doi.org/10.1007/s42452-019-1088-x		Corresponding author	2523-3971
9	Manmeet Singh, Jagpreet Singh, Mohit Rawat , Jeewan Sharma, Prit Pal Singh	Enhanced photocatalytic degradation of hazardous industrial pollutants with inorganic-organic TiO ₂ -SnO ₂ -GO hybrid nanocomposites	Journal of Materials Science: Materials in Electronics	2.20	2019	30	13389–13400	Co-author	1573-482X
10	Navneet Kaur, Jagpreet Singh, Gaganpreet Kaur, Sanjeev Kumar, Deepak Kukkar, Mohit Rawat	CTAB assisted co-precipitation synthesis of NiO nanoparticles and their efficient potential towards the removal of industrial dyes	Micro & Nano Letters	0.98	2019	14(8)	856-859	Corresponding author	1750-0443
11	Harpreet Kaur, Simerjeet Kaur, Jagpreet Singh, Mohit Rawat , Sanjeev Kumar	Expanding horizon: green synthesis of TiO ₂ nanoparticles using Carica papaya leaves for photocatalysis application	Materials Research Express	1.49	2019	6(9)	95034	Corresponding author	2053-1591
12	Karanpal Singh, Jagpreet Singh, Mohit Rawat	Green synthesis of zinc oxide nanoparticles using Punica Granatum leaf extract and its application towards photocatalytic degradation of Coomassie brilliant blue R 250 dye	SN Applied Science		2019	1(6)	624	Corresponding author	2523-3971
13	Jagpreet Singh, Aditi Rathi, Mohit Rawat , Vanish Kumar, Ki-Hyun Kim	The effect of manganese doping on structural, optical, and photocatalytic activity of zinc oxide nanoparticles	Composites Part B: Engineering	6.87	2019	166	361-370	Corresponding author	1359-8368
14	Jagpreet Singh, Preeti Kukkar, Heena Sammi, Mohit Rawat , Gurjinder Singh, Deepak Kukkar	Enhanced catalytic reduction of 4-nitrophenol and congo red dye By silver nanoparticles prepared from Azadirachta indica leaf extract under direct sunlight exposure	Particulate Science and Technology	1.42	2019	37(4)	430-439	Co- author	1548-0046
15	Jagpreet Singh, Sumit Kumar, Anshu Alok, Santosh Kumar Upadhyay, Mohit Rawat , Daniel CW Tsang, Nanthi Bolan, Ki-Hyun Kim	The potential of green synthesized zinc oxide nanoparticles as nutrient source for plant growth	Journal of Cleaner Production	6.39	2019	214	1061-1070	Corresponding author	0959-6526
16	Navneet Kaur, Akansha Mehta, Amit Mishra, Savita Chaudhary, Mohit Rawat , Soumen Basu	Amphiphilic carbon dots derived by cationic surfactant for selective and sensitive detection of metal ions	Materials Science and Engineering: C	4.96	2019	95	72-77	Corresponding author	0928-4931
17	Jagpreet Singh, Sukhmeen Kaur, Gaganpreet Kaur, Soumen Basu, Mohit Rawat	Biogenic ZnO nanoparticles: a study of blueshift of optical band gap and photocatalytic degradation of reactive yellow 186 dye under direct sunlight	Green Processing and Synthesis	1.13	2019	8	272-280	Corresponding author	2195-9550
18	Jagpreet Singh, Tanushree Dutta, Ki-Hyun Kim, Mohit Rawat , Pallabi Samddar, Pawan Kumar	'Green'synthesis of metals and their oxide nanoparticles: applications for environmental remediation	Journal of nanobiotechnology	5.82	2018	16	84	Co- author	1477-3155
19	Preeti Kukkar, Deepak Kukkar, Heena Sammi, Karanveer Singh, Mohit Rawat , Pritpal Singh, Soumen Basu, Ki-Hyun Kim	A facile means for the improvement of sensing properties of metal-organic frameworks through control on the key synthesis variables	Sensors and Actuators B: Chemical	6.39	2018	271	157-163	Co- author	0925-4005

20	Jagpreet Singh, Navneet Kaur, Pawanpreet Kaur, Sukhmeen Kaur, Jasneet Kaur, Preeti Kukkar, Vishal Kumar, Deepak Kukkar, Mohit Rawat	Piper betle leaves mediated synthesis of biogenic SnO ₂ nanoparticles for photocatalytic degradation of reactive yellow 186 dye under direct sunlight	Environmental nanotechnology, monitoring & management		2018	10	331-338	Co-corresponding author	2215-1532
21	Heena Sammi, Deepak Kukkar, Jaskaran Singh, Preeti Kukkar, Rajwinder Kaur, Harmanpreet Kaur, Mohit Rawat , Gurjinder Singh, and Ki-Hyun Kim	Serendipity in solution-GQDs zeolitic imidazole frameworks nanocomposites for highly sensitive detection of sulfide ions	Sensors and Actuators B: Chemical	6.39	2018	255	3047-3056	Co-author	0925-4005
22	Jagpreet Singh, Navneet Kaur, Mohit Rawat	Eco-friendly approach for synthesis of AgNPs and their catalytic application toward 4-nitrophenol to 4-aminophenol reduction	Micro and Nano Letters	0.98	2018	13(11)	1600-1603	Corresponding author	1750-0443
23	Jagpreet Singh, Harjot Kaur, Mohit Rawat	A novel green approach for the synthesis of tungsten oxide nanorods and its efficient potential towards photocatalytic degradation of reactive green 19 dye	Journal of Materials Science: Materials in Electronics	2.20	2018	29	13715-13722	Corresponding author	1573-482X
24	Gurjinder Singh, Jagpreet Singh, Sukhwinder Singh Jolly, Rohit Rawat, Deepak Kukkar, Sanjeev Kumar, Soumen Basu, Mohit Rawat	Fructose modified synthesis of ZnO nanoparticles and its application for removal of industrial pollutants from water	Journal of Materials Science: Materials in Electronics	2.20	2018	29(9)	7364-7371	Corresponding author	1573-482X
25	Gurjinder Singh, Sudhakar Panday, Mohit Rawat , Deepak Kukkar, Sanjeev Kumar, Soumen Basu	Low Temperature Synthesis of Elongated Triangular Bipyramidal ZnO Nanostructures for Photocatalytic Activity	Journal of Nano Research	0.59	2018	52	1-14	Co-author	1661-9897
26	Sukhpreet Kaur, Jagpreet Singh, Rohit Rawat, Sanjeev Kumar, Harpreet Kaur, K Venkateswara Rao, Mohit Rawat	A smart LPG sensor based on chemo-bio synthesized MgO nanostructure	Journal of Materials Science: Materials in Electronics	2.20	2018	29	11679-11687	Corresponding author	1573-482X
27	Mandeep Kumar, Akansha Mehta, Amit Mishra, Jagpreet Singh, Mohit Rawat , Soumen Basu	Biosynthesis of tin oxide nanoparticles using Psidium Guajava leave extract for photocatalytic dye degradation under sunlight	Materials Letters	3.019	2018	215	121-124	Corresponding Author	0167-577X
28	Jagpreet Singh, Aditi Rathi, Mohit Rawat , Manoj Gupta	Graphene: from synthesis to engineering to biosensor applications	Frontiers of Materials Science	1.80	2018	12	pages 01-20	Co-author	2095-0268
29	Mohit Rawat , Jasmeet Singh, Jagpreet Singh, Chamkaur Singh, Amritpal Singh, Deepak Kukkar, Sanjeev Kumar	Synthesis of Cu and Ce co-doped ZnO nanoparticles: crystallographic, optical, molecular, morphological and magnetic studies	Materials Science-Poland	0.92	2017	35(2)	427-434	Corresponding Author	2083-134X
30	Gurjinder Singh, Sudhakar Panday, Mohit Rawat , Deepak Kukkar, Soumen Basu	Facile Synthesis of CuO Semiconductor Nanorods for Time Dependent Study of Dye Degradation and Bioremediation Applications	Journal of Nano Research	0.59	2017	46	154-164	Co-author	1661-9897
31	Jagpreet Singh, Akansha Mehta, Mohit Rawat , Soumen Basu	Green synthesis of silver nanoparticles using sun dried tulus leaves and its catalytic application for 4-Nitrophenol reduction	Journal of environmental chemical engineering		2018	6	1468-1474	Corresponding Author	2213-3437
32	Gurjinder Singh, Sudhakar Panday, Mohit Rawat , Soumen Basu	Dye degradation of spherical and rod-shaped CuO semiconductor nanoparticles	Emerging Materials Research		2017	6	40-46	Co-author	2046-0147
33	Savita Chaudhary, Sandeep Kumar, Ahmad Umar, Jasmeet Singh, Mohit Rawat , SK Mehta	Europium-doped gadolinium oxide nanoparticles: A potential photoluminescent probe for highly selective and sensitive detection of Fe ³⁺ and Cr ³⁺ ions	Sensors and Actuators B: Chemical	6.39	2017	243	579-588	Co-author	1477-3155

Papers published in International Journals (Non-SCL)									
S.No.	Authors	Title	Journal	Publisher	Impact Fact	Year	Volume	Page no.	ISSN No.
1	Jagpreet Singh, Navalpreet Singh, Aditi Rathi, Deepak Kukkar, Mohit Rawat	Facile Approach to Synthesize and Characterization of Silver Nanoparticles by Using Mulberry Leaves Extract in Aqueous Medium and its Application in Antimicrobial Activity	Journal of Nanostructures	University of Kashan	---	2017	7(2)	134-140	2251-788X
2	Jagpreet Singh, Harman Kaur, Mohit Rawat	A uncanny potential of plants for metal nanoparticles synthesis	Journal of Nanomedicine Research	Med Crave		2018	7		

3	Jagpreet Singh, Tejinder Singh, Mohit Rawat	Green synthesis of silver nanoparticles via various plant extracts for anti-cancer application	Global Journal of Nanomedicine	Juniper		2017	7	Pages 01-04	
4	Navpreet Kaur, Sukhmeen Kaur, Jagpreet Singh, Mohit Rawat	A review on zinc sulphide nanoparticles: From Synthesis, properties to applications	Journal of Bioelectronics and Nanotechnology	Avens Publisher		2016	1	Pages 01-04	2475-224X
5	Jagpreet Singh, Gurleen Kaur, Pawanpreet Kaur, Rajat Bajaj, Mohit Rawat	A review on green synthesis and characterization of silver nanoparticles and their applications: a green nanoworld	World Journal of Pharmacy And Pharmaceutical Sciences			2016	7	730-762	2278 – 4357
6	Jagpreet Singh, Gurjot Kaur, Mohit Rawat	A brief review on synthesis and characterization of copper oxide nanoparticles and its application	Journal of Bioelectronics and Nanotechnology	Avens Publisher		2016	1		2475-224X

Papers published in International Conferences

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1	Manpreet Singh, Jagpreet Singh, Deepanjali Sharma, Bhupinder Kaur, Mohit Rawat	Plant leaves mediated synthesis of semiconductor ZnO nanoparticles and its application for seed germination	AIP Conference Proceedings	American Institute of Physics	---	2018	2006	10.1063/1.5051287	
2	Preeti Kukkar, Heena Sammi, Mohit Rawat , Pritpal Singh, Soumen Basu, Deepak Kukkar	Bioconjugation of luminescent Eu-BDC-NH ₂ MOFs for highly efficient sensing of BSA	AIP Conference Proceedings	American Institute of Physics	---	2018	1953	30203	
3	Ravneet Kaur, Kanwalpreet Kaur, Heena Sammi, Mohit Rawat , Gurjinder Singh, Deepak Kukkar	Facile synthesis of highly porous nano-scale gadolinium-PCA frameworks for bioimaging applications.	Proceedings of the International Conference on Nanotechnology for	Research Publishing, Singapore	---	2016	3	1	
4	G Kaur, Navneet Kaur, Mohit Rawat , Kulwinder Singh, Vishal Kumar	Band gap and FTIR studies for copper-zinc sol-gel glasses	AIP Conference Proceedings	American Institute of Physics	2016	1728	20198	