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Research Publications

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Publication in SCI Journals						
(*Correspondence ; †Equal contribution)						
S/N	Authors	Title	Journal's Name	Impact Factor	Vol./Issue/ page no/year	Publisher
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	Accepted	Springer
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	720/137604/ 2020	Elsevier
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	81/196- 205/2020	Elsevier

4	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	214/1061-1070/2019	Elsevier
5	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	177/108569/2019	Elsevier
6	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	166/361-370/2019	Elsevier
7	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	80/247-257/2019	Elsevier
8	Ehsanul Kabir, Nadeem Raza, Vanish Kumar, Jagpreet Singh , Yiu Fai Tsang, Dong Kwon Lim, Jan E. Szulejko, Ki-Hyun Kim	Recent advances in nanomaterial-based human breath analytical technology for clinical diagnosis and the way forward	CHEM	18.20	5 (12)/3020-3057/2019	Cell press
9	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	6/115007/2019	IOP science

10	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	37(4)/ 430-439/2019	Taylor & Francis
11	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	8/272-280/2019	De Gruyter
12	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	14/ 1229 – 1232/2019	IET
13	Jasneet Kaur, Jagpreet Singh , Mohit Rawat	An efficient and blistering reduction of 4-nitrophenol by green synthesized silver nanoparticles	SN Applied Science	NA	1/1060/2019	Springer Nature
14	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	30/13389–13400/2019	Springer
15	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	14(8)/ 856-859/2019	IET

16	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	6(9)/95034/2019	IOP Science
17	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	NA	1(6) /624 / 2019	Springer Nature
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	16 / 84 / 2018	Springer
19	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	NA	10 / 331-338 / 2018	Elsevier
20	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	13(11) / 1600-1603 / 2018	IET
21	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	29 / 13715-13722 / 2018	Springer

22	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	29(9) / 7364-7371 /2018	Springer
23	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	29 / 11679-11687 /2018	Springer
24	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	215 / 121-124 / 2018	Elsevier
25	Jagpreet Singh , Akansha Mehta, Mohit Rawat, Soumen Basu	Green synthesis of silver nanoparticles using sun dried tulsi leaves and its catalytic application for 4-Nitrophenol reduction	Journal of environmental chemical engineering	NA	6 / 1468-1474 / 2018	Elsevier
26	Jagpreet Singh , Aditi Rathi, Mohit Rawat, Manoj Gupta	Graphene: from synthesis to engineering to biosensor applications	Frontiers of Materials Science	1.80	12 / 2018	Springer
27	Suresh Sagadevan, Jagpreet Singh , Kaushik Pal	Hydrothermal synthesis of Zinc stannate nanoparticles for spectroscopic investigation”	Journal of Materials Science: Materials in Electronics	2.20	28 / 11268–11274 / 2018	Springer

28	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	35(2) / 427-434 / 2017	Wrocław University of Science and Technology
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Publication in Non-SCI Journals

S/N	Authors	Title	Journal	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	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	2018 7	2377-4282
3	Jagpreet Singh , Tejinder Singh, Mohit Rawat	Green synthesis of silver nanoparticles via various plant extracts for anti-cancer application	Global Journal of Nanomedicine	2017 7 / 01-04	2573-2374
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	2016 1 / 01-04	2475-224X
5	Jagpreet Singh , Gurleen Kaur, Pawanpreet Kaur,	A review on green synthesis and characterization of silver nanoparticles and their applications: a green nanoworld	World Journal of Pharmacy And	2016 7 / 730-762	2278 – 4357

	Rajat Bajaj, Mohit Rawat		Pharmaceutical Sciences		
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	2016 1	2475-224X

Publications in Conferences						
S/N	Authors	Title	Journal	Publisher	Vol./Year/DOI	Role
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 DOI: 0.1063/1.5051287	co-author
Books						
S/ N	Authors Names	Title of the book	Publisher		ISBN No. /Year	
1	Jagpreet Singh, Mohit Rawat	Green Synthesis of Silver Nanoparticles	Lap Lambert		978-3-8484-9826-0 /2017	