BIO-DATA

1. Name and full correspondence address: **Dr. A.K. Singh,FRSC** Professor of Chemistry

(DST-FIST Sponsored),

Govt. V. Y. T. PG. Autonomous College,

A⁺ NAAC Accredited (College with Potential for Excellence) Durg, Chhattisgarh, India.

Residential Address: B-573, Street-32, Smriti Nagar, Bhilai, DURG-490020, INDIA

- 2. Email(s) and contact number(s):ajayaksinghau@gmail.com;<u>ajayaksingh_au@yahoo.co.in</u>, +919406207572.
- 3. Institution: Govt. V. Y. T. PG. Autonomous College, Durg (C.G.)
- 4. Date of Birth: January 4th, 1966
- 5. Gender (M/F/T): M
- 6. Category Gen/SC/ST/OBC: Gen
- 7. Whether differently abled (Yes/No): No
- 8. Academic Qualification (Undergraduate Onwards)

S. No.	Degree	Year	Subject	University/Institution	% of marks
1.	B. Sc.	1986	Phy., Chem., Math.	Gorakhpur University,	60.4
				Gorakhpur (UP)	
2.	M. Sc.	1988	Chemistry	Poorvanchal University,	61.0
				Jaunpur (UP)	
3.	Others	1992	Qualified National		
			Eligibility Test (NET-JRF)		
			conducted by CSIR-UGC,		
			New Delhi, India (June		
			1992)		
4.	Ph.D.	2002	Chemistry	University of	
				Allahabad,Allahabad	

9. Ph.D thesis title, Guide's Name, Institute/Organization/University, Year of Award.: Thesis title – "**Studies on kinetics and mechanism of some redox processes in solutions**".

Guide Name: **Prof. Ashok Kumar Singh Institute Name: Department of Chemistry, University of Allahabad,Allahabad,UP** Year of Award: **2002**

Duration	1	Institution	Designation	Pay Scale(Rs.)
From	То	_		
1994	1996	Govt. Science College, Mungeli, Bilaspur	Assistant Professor	2200-4000
1996	2005	Govt. College Utai,Durg	Assistant Professor	
2005	2016	Govt. V. Y. T. PG. Autonomous College Durg (CG)	Associate Professor	From 2006 37400-67000
2016	Continue	Govt. V. Y. T. PG. Autonomous College, Durg (CG)	Professor	37400-67000

11. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S. No.	Name of Award	Awarding Agency	Year
1.	Teacher Research Fellowship	UGC	2000-2002
2.	Certificate of Merit award	American Chemical	2016
		Society, San Diego, USA	
3.	Elected member of NASI, Prayagraj	The National Academy	2019
		of Sciences, India(NASI)	
4	FRSC	Royal Society of	2022
		Chemistry, UK	
5.	Honorary Research Fellow	University of KwaZulu-	2022
		Natal, South Africa	

12. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No.	Title of paper	Journal details	Year	Authors	
		(Journal name, Volume,			
		Page no.)			
167.	Facile preparation of	Environmental	2021	Sushma Yadav, Anur	ama
	methionine-functionalized graphene oxide/chitosan	Nanotechnology,		Asthana, AjayaKumar Si Jyoti Patel, S. Sreevidya, S	ngh , onia

	polymer nanocomposite aerogel for the efficient removal of dyes and metal ions from aqueous solutions	Monitoring and Management doi.org/10.1016/j.enmm.2 022.100743		A. C. Carabineiro
166.	Aloe Vera functionalized magnetic nanoparticles entrapped Ca Alginate beads as novel adsorbents for Cu(II) removal from aqueous solutions	Nanomaterials 12 (2022) 2947	2021	Surbhi Lilhare, Sunitha B. Mathew, Ajaya Kumar Singh , Sonia A.C. Carabineiro.
165.	Potentialities of graphene and its allied derivatives to combat againstSARS-CoV- 2 infection,	Materials Today Advances,13(2022) 100208	2022	Ayesha Hashmi , Vanya Nayak , Kshitij RB Singh , , Bhawana Jain, MitishaBaid ,Frank Alexis, Ajaya Kumar Singh
164.	Synthesis and characterization of 2D structure of graphene oxide by using Phyllanthus Emblica: its photocatalytic activity on cationic dyes,	Fullerenes,NanotubesandCarbonNanostructures,2021(doi.org/10.1080/153)6383X.2021.1946039	2021	Ayesha Hashmi, Ajaya K. Singh ,Aftab Aslam Parwaz Khan, Abdullah M. Asiri
163.	Solochrome Dark Blue Azo Dye Removal by Sonophotocatalysis Using Mn 2+ Doped ZnS Quantum Dots,,	Catalysts2021, 111025	2021	Jyoti Patel , Ajaya K. Singh , Bhawana Jain , Sushma Yadav, Sónia A. C. Carabineiro and Md. Abu Bin Hasan Susan
162.	A comprehensive review on Cu2ZnSnS4 (CZTS) thin film for solar cell: forecast issues and future anticipation,	Optical and Quantum Electronics 53(2021)656	2021	Mitisha Baid, Ayesha Hashmi, Bhawana Jain, Ajaya Kumar Singh, Md. Abu Bin Hasan Susan, Mariya Aleksandrova
161.	A Novel Chromogenic Scheme for the Determination of Cu(II) in Water Samples	Analytical Chemistry Letters 11(6)2021)872- 885	2021	Surbhi Lilhare, Sunitha B. Mathew &Ajaya Kumar Singh

160.	Removal of Hydrophobic Contaminants from the Soil by Adsorption onto Carbon Materials and Microbial Degradation,	C – Journal of Carbon Research, C 2021, 7, 83	2021	ShippiDewangan, Amarpreet K. Bhatia, Ajaya Kumar Singh and Sónia A. C. Carabineiro
159.	Potentialities of bioinspired metal and metal oxide nanoparticles in biomedical sciences,	<u>RSC</u> <u>Advances</u> 11(40)(2021)24 722-24746	2021	<u>Kshitij RB Singh, Vanya</u> <u>Nayak, Jay Singh,</u> Ajaya Kumar Singh and <u>Ravindra Pratap Singh</u>
158.	Calcium alginate beads with entrapped iron oxide magnetic nanoparticles functionalized with methionine—a versatile adsorbent for arsenic removal,	Nanomaterials11(2021)1345	2021	S. Lilhare, S.B Mathew, Ajaya K. Singh , Sonia A.C., Carabineiro.
157.	Facile Synthesis of Bismuth-Based Perovskite and Solvent Engineering for Improving the Crystallinity of Lead-Free Perovskite Material: A Microstructural Exploration	2021 6th International Symposium on Environment-Friendly Energies and Applications (EFEA)IEEE,10.1109/EF EA49713.2021.9406228	2021	Ayesha Hashmi, Bhawana Jain, Jai Singh, MariyaAleksandrova, Ajaya Kumar Singh
156.	Role of the CdS/ZnS core/shell quantum dots in the thin film lead-free perovskite solar cells	Bulgarian Chemical Communication	2021	MariyaAleksandrova, G. D. Kolev, R. Tomov, AjayaKumar Singh , K. C. Mohite, G.H. Dobrikov
155.	Ga-doped ZnO coating – a suitable tool for tuning the electrode properties in the CdS/ZnS core-shell quantum dots based solar cells	Crystals 2021,11	2021	MariyaAleksandrova, Tatyana Ivanova, VelichkaStrijkova, TsvetozarTsanev, AjayaKumar Singh , Jai Singh, KostadinkaGesheva
154.	Potentialities of Selenium Nanoparticles in Biomedical Sciences	New Journal of Chemistry 45(2021) 2849-2878	2021	Vanya Nayak, Kshitij RB Singh, AjayaKumar Singh , and Ravindra Pratap Singh
153.	Methionine-functionalized	Nanomaterials (In Press)	2021	Sushma Yadav, Anupama

	graphene oxide/ sodium	Asthana, AjayaKumar Singh,
	alginate bio-polymer	Rupa Chakraborty, S. Sree
	nanocomposite hydrogel	Vidvo Ambrich Singh Sonio
	beads: Synthesis, isotherm	vidya, Amonsii Singii, Soina
	and kinetic studies for an	A. C. Carabineiro
	adsorptive removal of	
	fluoroquinolone antibiotics,	
152.	Adsorption of cationic, J. Hazard. Mater. 4092021	S. Yadav, A. Asthana,
	dyes, drugs and metal from (2021)	AjayaKumar Singh, R.
	aqueous solutions using a	Chakraborty, S. Sree Vidya,
	polymer composite of	M.A.B.H. Susan, S.A.C.
	magnetic/ β-Cyclodextrin/	Carabineiro
	activated charcoal/ Na	
	Alginate: Isotherm, kinetics	
	and regeneration studies	
151.	Ga-Doped ZnO Coating—Crystals 11(2021)137 2021	MariyaAleksandrova, Tatyana
	A Suitable Tool for Tuning	Ivanova,
	the Electrode Properties in	VelichkaStrijkova,TsvetozarTs
	the Solar Cells with	anev, Ajaya Kumar Singh , Jai
	CdS/ZnS Core-Shell	Singh, KostadinkaGesheva
	Quantum Dots,	
150.	Fabrication of TransparentMater. Proc. 2 (2020)2020TransparentTransparent	MariyaAleksandrova, Tatyana
	Coating as a Front Panel	Ivanova, KostadinkaGesneva, VelichkaStriikova
	Electrode	TsvetozarTsanev, Jai Singh,
	toward Efficient Thin	Ajaya Kumar Singh
	Film Solar Cells	
149.	Fabrication of Transparent Conference Proceedings 2020	MariyaAleksandrova,
	ITO/Ga-Doped ZnO Paper, The 2nd	TsvetozarTsanev, Tatyana
	Coating as a Front Panel Coatings and Electrode	Ivanova, KostadinkaGesheva
	toward Efficient Interfaces Web	VelichkaStrijkova. Jai Singh.
	Thin Film Solar Cells Conference, 2020	Ajaya Kumar Singh
		_
148.	Role of the absorber layer Energy Sources, Materials 2020	MariyaAleksandrova, G.D.
	in the thin film solar cells & Technologies, 2. (2020)	Kolev, R. Tomov, Ajaya
	with perovskites,	

	Alternative	87 – 88		Kumar Singh, K.C. Mohite,
	Energy Sources			G.H. Dobrikov
147.	Selective	Anal. Chem. Letter 10	2020	Surbhi Lilhare, Sunitha B.
	Spectrophotometric	(5) 2020, 054 - 000		Mathew, AjayaKumar Singh,
	Method for the	2		Sónia A.C. Carabineiro
	Determination o	f		
	Mercury(II) in Water	r		
	Samples			
146.	Chicken feathers derived	Journal of Dispersior	2020	Rupa Chakraborty, A. Asthana,
	materials for the removal of	fScience and Technology		AjayaKumar Singh , Renu
	chromium from aqueous	S		Verma, Sreevidya S., Sushma
	solutions: Kinetics	,		Yadav, Sónia A.C. Carabineiro,
	isotherms, thermodynamics	S		Md. Abu Bin Hasan Susan
	and regeneration studies			
145.	Synthesis, characterization	Journal of Dispersior	2020	Ranjana Dewangan, Anupama
	and antibacterial activity of	fScience and Technology		Asthana, Ajaya. Kumar Singh ,
	a graphene oxide based	Ł		Sónia A.C. Carabineiro
	NiO and starch composite	e		
	material			
144.	Novel and green reduction	Journal of Natura	12020	A. Hashmi, Ajaya. Kumar
	of graphene oxide by	Fibers		Singh, A. A. P. Khan, A. M.
	capsicum annum: Its	s		Asiri.
	photocatalytic			
	activity			
143.	Control of surface	ePolymer Bulletin" 2020	2020	R. Dewangan, A. Asthana,
	functionalization o	f		AjayaKumar Singh, Sonia A.
	graphene-metal oxide	2		C. Carabineiro.
	polymer nanocomposites	S		
	prepared by a hydrotherma	1		
	method			
142.	Micellar mediated nove	l Analytical	2020	G. P. Pandey, AjayaKumar
			1	

	method for the Methods 12(2020) 4327-	Singh, L. Deshmukh, A.
	determination of selenium4333	Asthana, M. Yoshida, S.
	in environmental samples	Prasad.
	using chromogenic reagent	
141.	Praseodymium-doped Polyhedron 190(2020)2020	S. Ahmadi, A. Rahdar, C. A.
	cadmium tungstate 114792	Igwegbe, G. Z. Kyzas,
	(CdWO4) nanoparticles for	AjayaKumar Singh,
	dye degradation with	
	sonocatalytic process	
140.	Degradation of Methylene International Journal of 2020	R.Dewangan, Ayesha Hashmi,
	Blue and Methyl Violet Using Graphene Environmental	Anupama Asthana, AiavaKumarSingh. Md Abu
	Oxide/NiO/β- Cyclodextrin Analytical Chemistry"	Bin H Susan
	Nanocomposites as	
	Photocatalyst	
139.	Intensified elimination of Journal of Molecular 2020	Rupa Chakraborty, Anupama
	aqueous heavy metal ionsLiquids,312(2020)113475	Asthana, AjayaKumar Singh ,
	using chicken feathers	Sushma Yadav,Md. Abu Bin
	chemically modified by a	Hasan Susan, Sónia A.C.
	batch method,	Carabineiro
138.	Treatment of Nanotechnology for 2020	Bhawana Jain,
	pharmaceutical wastewater Environmental	Ajaya Kumar Singh,
	by heterogeneous Fenton process: an innovative Engineering5(2020)13	Swati Banchhor, Sreekantha B.
	approach	Md. Abu Bin Hasan Susan
137.	Assessing the Nanomaterials 10 (2020) 2020	Jyoti Patel,
	Photocatalytic Degradation 964	AjayaKumarSingh, Sonia
	Norfloxacin by	A.C.Carabineiro
	Mn:ZnS Quantum Dots:	
	Kinetic Study, Degradation	
	Pathway and Influencing	
	Factors	

136.	Zinc oxide nanoparticle incorporated on graphene oxide: an efficient and stable photocatalyst for water treatment through the	Advanced Composites and Hybrid Materials 3 (2020) 1-12	2020	Bhawana Jain, Ayesha Hashmi, Sunita Sanwaria, AjayaKumar Singh, Md. Abu Bin Hasan Susan, Ambrish Singh
135.	Fenton process,SensingAbilityofFerroelectricOxideNanowiresGrowninTemplates of Nanopores	Materials 13(2020)1777	2020	MariyaAleksandrova, TsvetozarTsanev, Ashish Gupta, AjayaKumar Singh , Georgi Dobrikov, Valentin Videkov
134.	Effect of micelles on hydrolysis of di-2,3- dichloroaniline phosphate,	Indian Journal of Chemistry-Section- A59A(2020) 551-562	2020	Nisha Chhetri, Shashikala A. Bhoite, AjayaKumar Singh , Bhawana Jain
133.	Catalytic Properties of Graphene Oxide Synthesized by a "Green" Process for Efficient Abatement of Auramine-O Cationic Dye	Analytical Chemistry Letters,10(2020)2 1-32	2020	Bhawana Jain, Ayesha Hashmi, Sunita Sanwaria, AjayaKumar Singh , Md. Abu Bin Hasan Susan,Sónia A.C. Carabineiro
132.	Mn-Doped ZnS Quantumdots–An Effective Nanoscale Sensor	Microchemical Journal155(2020)104755	2020	Jyoti Patel, Bhawana Jain, AjayaKumar Singh , Md. Abu Bin Hasan Susan,Lellouche Jean- Paul
131.	Muffle atmosphere promoted fabrication of graphene oxide nanoparticle by agricultural waste.	Fullerenes, Nanotubes And Carbon Nanostructures (https://doi.org/10.1080/15 36383X.2020.1728744)	2020	Ayesha Hashmi, Ajaya Kumar Singh , Bhawana Jain, Ambrish Singh
130.	Chloramine-T/N- Bromosuccinimide/FeCl ₃ /K IO ₃ Decorated Graphene	Nanomaterials, 10 (2020) 105; doi:10.3390/nano1001010	2020	Ayesha Hashmi, Ajaya Kumar Singh , Bhawana Jain, Sónia, Alexandra Correia Carabineiro

	Oxide, Nanosheets and	5		
	Their Antibacterial Activity	r		
129.	Cationic Dye Removal	Nanomaterials,	2020	Sushma Yadav, Anupama
	Using Novel	10(2020)170;		Asthana, Rupa Chakraborty,
	Magnetic/Activated	doi:10.3390/nano100101		Bhawana Jain, Ajaya Kumar
	Charcoal/βCyclodextrin/Al	70		Singh, Sónia A. C.
	ginate, Polymer			Carabineiro, Md. Abu Bin
	Nanocomposite			Hasan Susan
128.	Mechanistic investigation	SN Applied Sciences	2020	Ajaya Kumar
	of osmium(VIII)catalyzed	(Springer) 2(2020) 245		Singh, ShakilaBano, Bhawana
	oxidation of brilliant green			Jain
	dye by chloramine-T in			
	alkaline medium: a			
	spectrophotometric kinetic			
	study			
	Vination of migallon offerst	Asian Journal of	2020	Singh,
127.	Kinetics of micenar effect	Asiani Journai Or	-0-0	8 /
127.	of non-ionic surfactant on	Chemistry,32(2020)359-	_0_0	AjayaKumar, Shrivastava,
127.	of non-ionic surfactant on oxidative degradation of	Chemistry ,32(2020)359- 368	_0_0	AjayaKumar , Shrivastava, A., Shrivastava, D.R., Patel,
127.	of non-ionic surfactant on oxidative degradation of ciprofloxacin	Chemistry ,32(2020)359- 368		AjayaKumar , Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N.
127. 126.	Adsorption of heavy metal	Chemistry,32(2020)359- 368	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama
127. 126.	Adsorption of heavy metal ions by various low cost	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh,
127. 126.	Adsorption of heavy metal ions by various low cost adsorbents: A review,	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press)	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin
127. 126.	Adsorption of heavy metal ions by various low cost adsorbents: A review,	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan
127.	Adsorption of heavy metal ions by various low cost adsorbents: A review,	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1 722811	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan
127. 126. 125.	Kinetics of micenar effectof non-ionic surfactant onoxidative degradation ofciprofloxacinAdsorption of heavy metalions by various low costadsorbents: A review,Adsorption of hazardous	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1 722811 International Journal of	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan Chakraborty, R., Verma,
127. 126. 125.	Kinetics of micentar effect of non-ionic surfactant on oxidative degradation of ciprofloxacin Adsorption of heavy metal ions by various low cost adsorbents: A review, Adsorption of hazardous chromium (VI) ions from	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1 722811 International Journal of Environmental	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan Chakraborty, R., Verma, R., Asthana, A., Vidya,
127. 126. 125.	Kinetics of micentar effect of non-ionic surfactant on oxidative degradation of ciprofloxacin Adsorption of heavy metal ions by various low cost adsorbents: A review, Adsorption of hazardous chromium (VI) ions from aqueous solutions using	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1 722811 International Journal of Environmental Analytical Chemistry (In	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan Chakraborty, R., Verma, R., Asthana, A., Vidya, S.S., Singh, Ajaya Kumar
127. 126. 125.	Adsorption of hazardous chromium (VI) ions from aqueous solutions using modified sawdust: kinetics,	Chemistry,32(2020)359- 368 International Journal of Environmental Analytical Chemistry (In Press) 10.1080/03067319.2020.1 722811 International Journal of Environmental Analytical Chemistry (In Press)	2020	AjayaKumar, Shrivastava, A., Shrivastava, D.R., Patel, R., Sachdev, N. Rupa Chakraborty, Anupama Asthana, Ajaya Kumar Singh, Bhawana Jain,Md. Abu Bin Hasan Susan Chakraborty, R., Verma, R., Asthana, A., Vidya, S.S., Singh, Ajaya Kumar

	thermodynamic modeling	067319.2019.1673743		
124.	Synthesis of Ag Nanoparticle-Decorated ZnO Nanorods Adopting the Low Temperature,	Journal of Electronic Materials, 49 (2020) 637-642	2020	Kanchana Shahi, R.S. Singh, Jai Singh, Maria Aleksandrova, Ajaya Kumar Singh
123.	Hydrothermal Method Kinetics and mechanistic	SN Applied Sciences	2019	Reena Negi, Bhawana Jain,
	study of oxidation of paracetamol: an accelerated catalytic Approach	(Springer) 1(2019)1380		Sunita Singh, Ajaya Kumar Singh , Anupama Asthana
122.	Tailored Engineering of Bimetallic Plasmonic Au@AgCore@Shell Nanoparticles	ACS Omega4 (2019) 18061-18075	2019	Samira Mahmud, Shazia SharminSatter, Ajaya Kumar Singh , M. Muhibur Rahman, M. Yousuf A. Mollah, and Md. Abu Bin Hasan Susan
121.	Structural, electronic and optical properties of ABTe2 (A =Li, Na, K, Rb, Cs and B= Sc, Y, La): Insights from first- principles computations,	Journal of Solid State Chemistry279 (2019) 120954	2019	L. Azzouz, M. Halit, M. Rerat , R. Khenata, AjayaKumar Singh , M.M. Obeid , Hamad R. Jappor, , Xiaotian Wang
120.	Synthesis and characterization of PEDOT:PSS/ZnO nanowires heterojunction on ITO coated plastic substrate for light-emitting	Materials Today: Proceedings(2019)	2019	Kanchana Shahi, R.S.Singh, MariyaAleksandrova, Ajaya Kumar Singh

	diodes,			
119.	Oxidative behavior of N-	SN Applied	2019	Bhawana Jain, Reena Negi,
	bromophthalimide for	Sciences(2019)1:98		Ajaya Kumar Singh
	organic compounds: a	https://doi.org/10.1007/s		
	review	42452-018-0100-1		
118.	Synthesis and	Materials Today:	2018	Gautam SheelThool,
	morphological study of Mn	Proceedings5,		MitishaBaid, Ajaya Kumar
	doped ZnS films	15158-15164		Singh, N.P. Singh
117.	Treatment of organic	Environmental	2018	Bhawana Jain, Ajaya Kumar
	pollutants by homogeneous	Chemistry Letters(On	L	Singh, Hyunook Kim, Eric
	and heterogeneous Fenton	line first)		Lichtfouse, Virender K. Sharma
	reaction processes			
116.	CdTe quantum-dot-	Applied Physics A, 124,	2018	Kanchana Shahi, R. S. Singh,
	modified ZnO nanowire	277		Ajaya Kumar Singh,
	heterostructure			MariyaAleksandrova,
				Rabah Khenata
115.	Nanosize water soluble	Nanotechnology for	2018	Savita Pataila, Bhawana Jain,
	colloidal MnO ₂ : An	Environmental		Gautam SheelThool, Ajaya
	efficient oxidant for the	Engineering 3:2, 1-12		Kumar Singh
	ruthenium (III) catalyzed			
	degradation of			
	metronidazole			
114.	Flexible optoelectronic	Proceedings of the	2017	MariyaAleksandrova, G.
	device with polymer based	International Spring	5	Dobrikov, Ajaya Kumar.
	electrode on hybrimer	Seminar on Electronics		Singh, V. Videkov, G. Kolev
	substrate –Impact of the	Technology pg.12		
	bending on the interfacial			
	processes			
113.	Mechanistic study of novel	Arabian Journal of	2017	Neerja Sachdev, Ajaya Kumar

	oxidation of D-arabinose Chemistry 10, 965-974	Singh, Alpa Shrivastava,
	by N-bromophthalimide in	Yokraj Katre, Aftab Aslam
	presence of using micro-	Parwaz
	amount of chloro-complex	
	of Ru(III) as a	
	homogeneous catalyst	
112.	Arginine functionalized Royal Society of 2017	Renu Verma, Anupama
	magnetic nano-sorbent for Chemistry Advances 7,	Asthana, Ajaya Kumar
	simultaneous removal of 51079-51089	Singh, Surendra Prasad
	three metal ions from water	
	samples	
111.	Recent progress in Optical and Quantum 2017	Reena K. Sajwan, Samit
	multicolor tuning of rare Electronics 49, 344	Tiwari, Tulika Harshit, Ajaya
	earth-doped gadolinium	Kumar Singh
	aluminate phosphors	
110.	Micellar catalyzed Journal of Dispersion (In	Nisha Chhetri, S. A. Bhoite,
	hydrolysis of mono-2,3-Science and Technology press)	Ajaya Kumar Singh
	dichloroaniline phosphate	
109.	Micellar oxidative Environmental 2017	Alpa Shrivastava, Ajaya
	transformation of Chemistry 14, 231-242	Kumar Singh, Neerja Sachdev
	ciprofloxacin: A kinetic	, Dilip Raj
	and mechanistic approach	Shrivastava, Surendra Prasad
108.	CdZnSSe Thin Film for Materials Today-2017	Soumya R. Deo, Ajaya Kumar
	Photovoltaic Device Proceedings 4, 5537-5543	Singh, Lata Deshmukh, M.
		Aleksandrova
107.	Oxidative degradation of Journal of Indian 2017	Savita Pataila, Bhawana Jain,
	metronidazole by acidic Chemical Society 94, 1-8	Gautam SheelThool, Ajaya
	potassium permanganate: A	Kumar Singh,Pradeep K.
	spectrophotometric kinetic	Sharma
	study	
106.	Optical and structural International Journal for 2017	Kanchana Shahi, R.S. Singh,

	properties of Zinc Oxide Research in Applied	Ajaya Kumar Singh
	nanowires fabricated by Science and Engineering	
	hydrothermal Method Technology 5,715-719	
105.	Degradation of naphthylazo Desalination and Water 2017	Bhawana Jain, Ajaya Kumar
	anionic dye by Fenton and Treatment 62, 252-256	Singh, Virender K. Sharma
	Fenton-like processes: A	
	Comparative study with	
	Fast sulphon black-F	
104.	Novel glycine-Microchemical Journal 2017	Renu Verma, Anupama
	functionalized magnetic 130, 168-178	Asthana, Ajaya Kumar Singh ,
	nanoparticles entrapped	Surendra Prasad, Md. Abu Bin
	calcium alginate beads for	Hasan Susan
	effective removal of lead	
103.	Hydrophilic ionic liquid-Royal Society of 2016	MousumiAkter,
	assisted control of the size Chemistry Advances 6,	ShaziaSharminSatter, Ajaya
	and morphology of ZnO92040-92047	Kumar Singh, M.
	nanoparticles prepared by a	Muhibur Rahman, M. Yousuf
	chemical precipitation	A. Mollah, Md. Abu Bin Hasan
	method	Susan
102.	Oxidative degradation of Indian Journal of 2016	Ajaya Kumar Singh, Neelam
	norfloxacin by waterChemistry:A55A, 1059-	Sena&Som Kumar Chatterjee
	soluble colloidal MnO_2 in 1067	
	the presence of cationic	
	surfactant	
101.	Silver Nanoparticle Macromolecular 2016	Anupama Asthana, Renu
	Entrapped Calcium- Symposium 366, 42-51	Verma, Ajaya Kumar Singh ,
	Alginate Beads for Fe(II)	Md. Abu Bin Hasan Susan,
	Removal via Adsorption	Rameshwar Adhikari
100.	Kinetic study of oxidation Colloid and Polymer 2016	Ajaya Kumar Singh, Neelam
	of paracetamol by waterScience 294, 1611-1622	Sen, Som Kumar Chatterjee,
	soluble colloidal MnO_2 in	Md. Abu Bin Hasan Susan

	the presence of an anionic	
	surfactant	
99.	Highly flexible, conductive Materials Letters 174,2016	MariyaAleksandrova, Valentin
	and transparent PEDOT:204-208	Videkov, Radost Ivanova,
	PSS/Au/PEDOT: PSS	Ajaya Kumar Singh , Gautam
	multilayer electrode for	SheelThool
	optoelectronic devices	
98.	Kinetic determination of Microchemical Journal 2016	Garima Pravin Pandey, Ajaya
	trace amount of mercury 128, 55-61	Kumar Singh , Surendra
	(II) in environmental	Prasad, Lata Deshmukh,
	samples	Anupama Asthana, Sunitha
		B.Mathew, Masafumi Yoshida
97.	Glycine functionalized Journal of 2016	Anupama Asthana, Renu
	magnetic nanoparticle Environmental Chemical	Verma, Ajaya Kumar Singh ,
	entrapped calcium alginate Engineering 4, 1985–	Md. Abu Bin Hasan Susan
	beads: A promising 1995	
	adsorbent for removal of	
	Cu(II) ions	
96.	Studies on Structural, Journal of Fluorescence 2016	Soumya R. Deo, Ajaya Kumar
	Morphological and Optical 26, 459-469	Singh, Lata Deshmukh,
	Properties of Chemically	Narendra Pratap Singh, Mariya
	Deposited $CdS_{1-x}Se_x$ Thin	P. Aleksandrova
	Films	
95.	Kinetic and mechanistic Journal of Dispersion 2016	Homeshwari Yadav, S.A.
	study of micellar effect of Science and Technology	Bhoite, Ajaya Kumar Singh
	hydrolytic reaction of di-2-DOI:10.1080/01932691.20	
	methoxy-4-nitroaniline 16.1146614	
	phosphate	
94.	Micelle catalyzed oxidative Tenside Surfactants 2016	Ajaya Kumar Singh, Neelam
	degradation of paracetamol Detergents 53, 347-356	Sen, Som Kumar Chatterjee,
	by water soluble colloidal	N.P. Singh

 93. Effect of Surfactants on Tenside Surfactants 2016 Homeshwari Yac Hydrolysis of Mono-N-Detergents 53, 182-194 Hydrolysis of Mono-N-Detergents 53, 182-194 Bhoite, Ajaya Kur ethyl-o-toluidine Phosphate 92. Synthesis, morphological Synthesis and Reactivity 2016 Swati Mehra, Aja and Optical Properties ofin Inorganic, Metal-Nanocrystalline Solid Cu_xSOrganic, and Nano-Thin Films Metal Chemistry 46, 570-582 91. Shape tunable synthesis of Bulletin of Materials 2015 Gautam Arunakumari M, A microstructures: A morphological evaluation 90. Cowrie-Shell Journal of Alloys and 2015 Gautam SheelT Architectures: Low Compounds 649, 553-558 Sraveen, Ajaya Ku Temperature Growth of Ni Doped CdS Film 89. Metal chalcogenide Journal of Electronic 2015 Ajaya Kumar Sir nanocrystalline solid thin Materials 44, 4098-4127 Films 88. Studies on structural, Optik - International 2015 Ajaya Kumar Sir morphological and optical Journal for Light and behavior of chemically Electron Optics 126, deposited Cd_{0.5}Pb_{0.5}S thin 2311-2317 films 87. Mechanistic study of Journal of the Iranian 2015 Bhawana Jain, Aj Singh, Reena Negi d oxidation of L-leucine by 1717-1728 	
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86. Homogenous catalysis of International Journal of 2015 Aftab Aslam Pa	aya Kumar
Ru(III) for the oxidation of Electrochemical Science Anish Khan, A	aya Kumar waz Khan,

	Thiamine by Chloramine T10,759 -774	Asiri, Ajaya Kumar Singh
	in acidic medium	
85.	Synthesis and Indian Journal of 2015	Ritu Shrivastava, Subhash
	Characterization of Cerium Physics 89, 1153-1159	Shrivastava, R.S. Singh, Ajaya
	doped CdZnS nanoparticles	Kumar Singh
84.	Characterization of CdZnS Materials Research 2015	Ritu Shrivastava, Subhash
	Thin Film grown by using Express 2, 036401	Shrivastava, R.S. Singh, Ajaya
	different capping agents	Kumar Singh
83.	Development of surfactant Microchemical Journal 2015	Garima Pravin Pandey, Ajaya
	assisted kinetic method for 118, 150–157	Kumar Singh , Lata
	trace determination of	Deshmukh, Surendra Prasad,
	thallium in environmental	Anupama Asthana
	samples	
82.	Cu-implanted ZnOJournal of Alloys and 2015	Ajaya Kumar Singh, Gautam
	nanorods array film: An Compounds 618, 421–427	SheelThool, Surya Prakash
	aqueous synthetic approach	Singh
81.	Determination of Dicofol in Synthesis and Reactivity 2015	Garima Pravin Pandey, Ajaya
	Various Environmental <mark>in Inorganic, Metal-</mark>	Kumar Singh, Lata
	Sample by Organic, and Nano-	Deshmukh, Anupama Asthana
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79.	Synthesis and Optical CSVTU Research 2014	Swati Mehra, Ajaya Kumar
	properties of journal 7, 86-91	Singh
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	photoluminescence	SakunthalaMadhavendra, Surya
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	solution growth method: A712-721	Ashish Gupta, Md. Abu Bin
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	CdZnSe Thin Films	
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	Properties of Chemical Engineering 1,	Mehra, Gautam SheelThool
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	using chromogenic reagent	L.J. Paliwal, Anupama
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	presence of perchloric acid:	
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	nanoparticles 244	Deshmukh, Anupama Asthana,
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	structural & optical Proceedings 1536, 251-	Singh, Lata Deshmukh, Garima
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	bromophthalimide in	
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	bromate	
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	bromophthalimide in1524-1529	Kumar Singh
	micellar system of CTAB	0
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	investigation of Chemical	Singh, AlpaShrivastav, Yokraj
	chlorocomplex of Ru(III) Society(Elsevier)	Katre
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	acidic medium	
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	L-Lysine (An essential 34, 421-1428	
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	post-deposition thermal Intermediates 38 2041	SheelThool Soumva R Deo R
		Sheerinoon, Bouniya K. Deo, K.

	annealing on 2049	S. Singh, Ashish Gupta
	morphological and optical	
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59.	Micelle catalyzed oxidative Journal of Molecular 2012	Alpa Srivastava, Ajaya Kumar
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58.	Kinetics and mechanism of Colliod Journal74, 391-2012	Yokraj Katre, Minu Singh,
	oxidation reaction of 400	Ajaya Kumar Singh
	lactose by N-	
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	Micelles used as a catalyst	
57.	Oxidation of D-Glucose by Research on Chemical 2012	Ajaya Kumar Singh, Neerja
	NBP in the presence of Intermediate 38, 507-	Sachdev, Alpa Srivastava,
	chlorocomplex of Ir(III): A521	Bhawana Jain, Yokraj Katre
	Kinetic and mechanistic	
	study	
56.	Micellar effect on kinetic Journal of Dispersion 2012	Alpa Srivastava, Ajaya Kumar
	assessment of the oxidative Science and	Singh, Neerja Sachdev, D.R.
	degradation of Norfloxacin Technology33,1752-1761	Srivastava, Yokraj Katre
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55.	Influence of cationic Journal of Dispersion 2012	Yokraj Katre, Radhika Sharma,
	micelle on the oxidation of Science and	G. K. Joshi, Ajaya Kumar
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54.	Kinetic Study of Oxidation Research on Chemical 2012	Yokraj Katre, Savita nayak,
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53.	Catalytic effect of Journal of Dispersion 2012	Yokraj Katre, S. Rajani

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52.	Micelle catalysed oxidation Journal of Dispersion 2012	Yokraj Katre, Kamalni
	of 4-Methyl, 2-Pentanone Science and	Tripathi, Ajaya Kumar Singh
	by NBP in the presence of Technology 33, 447-456	
	acetic acid	
51.	Synthesis and Synthesis and Reactivity 2011	Ajaya Kumar Singh , Soumya
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	chemically deposited Organic, and Nano-	R.S. Singh, Yokraj Katre,
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50.	Pd(II) catalyzed oxidative Industrial & 2011	Ajaya Kumar Singh, Reena
	degradation of paracetamol Engineering Chemistry	Negi, Bhawana Jain,
	by chloramine-T in acidic Research 50,8407-8419	YokrajKatre, Surya Prakash
	and alkaline media	Singh, Virender Kumar Sharma
49.	Effect of anionic surfactant Journal of Dispersion 2011	Yokraj Katre, G.K. Joshi,
	on the oxidation of DL-Science and	Ajaya Kumar Singh
	aspartic acid by N- Technology 32, 1434-1444	
	bromophthalimide: A	
	kinetic study	
48.	Influence of Oxidation 2011	Yokraj Katre, Minu Singh,
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	bromide/sodium 273-291	
	dodecylsulfate micelles on	
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	by N-bromophthalimide in	
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47.	Kinetics and Mechanism of Journal of Dispersion 2011	Yokraj Katre, Minu Singh,
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	Bromosuccinimide	
	Oxidation of D-Mannose in	
	Acidic Medium	
46.	Micellar effect upon Journal of Dispersion 2011	Yokraj Katre, K. Tripathi, G.K.
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	acetophenone by N- Technology 32, 341-351	
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	aqueous acetic acid	
	medium	
45.	Characterization and Digest Journal of 2011	R.S. Singh, S. Bhushan, Ajaya
	optical studies of CdSe <mark>Nanomaterials and</mark>	Kumar Singh, S.R. Deo
	Nanocrystalline thin films Biostructures 6, 433-442	
44.	Effect of CTAB micelle on Zeitschrift für 2011	Yokraj Katre, Namita Goel,
	the oxidation of L-Leucine PhysikalischeChemie225,	Ajaya Kumar Singh
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43.	An efficient and mild Tenside Surfactants 2011	Yokraj Katre, Minu Singh,
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	preparation of aldonic acids	
	via oxidation of D-sucrose	
	by employing N-	
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	and micellar system	
42.	A novel and facile Synthesis and Reactivity 2010	Ajaya Kumar Singh, Neerja
	oxidation of D-Glucose by in Inorganic, Metal-	Sachdev, Alpa Srivastava,
	N-bromophthalimide in the Organic, and Nano-	Yokraj Katre, S.P. Singh
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41.	Characterization and Journal of Ovonic 2010	R.S. Singh, S. Bhushan, Ajaya
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	Dy ³⁺ doped chemically	
	deposited CdS-Se films	
40.	Studies on nano-crystalline Chalcogenide Letters7,2010	R.S. Singh, S. Bhusan, Ajaya
	properties of chemically465-471	Kumar Singh
	deposited CdSe films	
39.	Kinetic Study of Ru(III)-Transition Metal2010	Ajaya Kumar Singh, Bhawana
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	glycine by N-	S.P. Singh, V.K. Sharma
	bromophthalimide in acidic	
	medium	
38.	Kinetic Study of oxidation Synthesis and Reactivity 2010	Ajaya Kumar Singh, Bhawana
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	catalyst	
37.	Effect of micellar Tenside Surfactants 2010	Yokraj Katre, Minu Singh,
	aggregates on the kinetics Detergents 47, 98-105	Ajaya Kumar Singh
	of dextrose oxidation by N-	
	bromosuccinimide	
36.	Kinetic Study of Oxidation Journal of Dispersion 2010	Yokraj Katre, G.K. Joshi,
	of DL-Serine by <i>N</i> - Science and	Ajaya Kumar Singh
	Bromophthalimide in the Technology 31, 108-116	
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35.	Kinetics and mechanism of Catalysis Letters132,2009	Ajaya Kumar Singh, Reena
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34.	Kinetics and mechanism of Transition Metal 2009	Ajaya Kumar Singh, Bhawana
	oxidation of β -Alanine by Chemistry 34, 521-528	Jain, Reena Negi, Yokraj Katre,
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	of Acetone by N-	
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32.	A novel oxidation of valine Catalysis Letters 131, 98-2009	Ajaya Kumar Singh , Bhawana
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31.	Mechanistic study of IrJournal of Carbohydrate 2009	Surya Prakash Singh, Ashok
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30.	Mechanistic study of novel Journal of Molecular 2009	Ajaya Kumar Singh, Reena
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29.	Oxidation of valine by N-The Open Catalysis 2009	Ajaya Kumar Singh, Bhawana

	bromophthalimide in Journal 2, 12-21	Jain, Yokraj Katre, Surya
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28.	Micelle-assisted N-Acta Physico-2009	Yokraj Katre, Minu Singh,
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27.	Oxidation of L-alanine by Kinetics & Catalysis50,2009	G.K. Joshi, Yokraj Katre,
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26.	Effect of ionic micelle on Journal of Dispersion 2009	Yokraj Katre, Kalpana Sahu,
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24.	Effect of cationic micelle Journal of Dispersion 2009	Yokraj Katre, Sangeeta Patil,
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23.	First and novel oxidation of Journal of Molecular 2008	Surya Prakash Singh, Ashok
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21.	Effect of Tenside Surfactants 2008	G.K. Joshi, Yokraj Katre,
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	β -alanine by <i>N</i> -	
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20.	Oxidation of lactic acid by Oxidation 2008	Sangeeta Patil, Yokraj Katre,
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19.	Micellar effect on the Colloids and Surfaces A:2007	Sangeeta Patil, Yokraj Katre,
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18.	A kinetic and mechanistic Journal of Surfactants 2007	Sangeeta Patil, Yokraj Katre,
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10.	Mechanism of Pd (II) an	d Journal of Molecula	r2003	Ashok Kumar Singh, V. Singh,
	Hg (II) co-catalyze	dCatalysis A: Chemica	1	S. Rahmani, Ajaya Kumar
	oxidation of D-mannos	e197, 91-100		Singh, B. Singh
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	bromoacetamide			
9.	Kinetics and mechanism of	of Carbohydrate	2002	Ashok Kumar Singh, V. Singh,
	Ru(III) and Hg(I	D) Research 337, 345-351		Ajaya Kumar Singh, Neena
	catalyzed oxidation of D)_		Gupta, B. Singh
	galactose and Dribose b	У		
	N-bromoacetamide i	n		
	perchloric Acid			
	National Journals			
8.	Kinetics of oxidation of	fIndian Journal o	f 2004	Ashish, Ajaya Kumar Singh,
	crotonic acid by N-chloro	- Chemistry 43A, 1645	-	Ashok Kumar Singh, B. Singh
	p-toluenesulphonamide i	n1653		
	the presence of Pd(II) an	d		
	Os(VIII) as homogeneou	IS		
	catalyst			
	Publications i	n		
	Conference Proceedings			
7.	Kinetic Study o	fProceedings of The	e2012	Ajaya Kumar Singh
	Ruthenium(III) Catalyze	d National Seminar i i	n	
	Oxidation of Lactic Aci	d Chemistry Recen	t	
	by Potassium Bromate	Trends in Chemica	1	
		Sciences and Future	e	
		Prospects, pg. 6-13		
6.	Kinetics and mechanism of	of Proceedings of the	e2012	Ajaya Kumar Singh, V.S.
	iridium (III) Catalyse	d National Seminar i i	n	Geete
	oxidation of norfloxacin	eChemistry Recen	t	

	by chloramine-T in acidic	Trends in Chemica		
	medium	Sciences and Future		
		Prospects, pg. 28-37		
5.	Photoluminescence studies	Proceedings of the	2012	Ritu Shrivastava, R.S. Singh,
	in chemically deposited	National Seminar ir		Ajaya Kumar Singh
	CDSs: CDCl ₂ thin films	Chemistry Recent	t	
		Trends in Chemica	L	
		Sciences and Future		
		Prospects, pg. 60-63		
4.	Experimental study about	Proceedings of the	2012	Ajaya Kumar Singh, Swati
	effect of Jatropha Biodiesel	National Seminar ir		Mehra
	in physicochemical	Chemistry Recent	t	
	properties of	Trends in Chemica		
	mixture with additive	Sciences and Future		
		Prospects, pg. 73-80		
3.	Kinetics and Mechanism of	Proceedings of the	2012	Ajaya Kumar Singh , V.S.
	Ru(III) Catalysed	National Seminar ir		Geete
	Oxidation of Norfloxacine	Chemistry Recent	t	
	by Chloramine-T in Acidic	Trends in Chemica	L	
	medium	Sciences and Future	è	
		Prospects, pg. 89-96		
2.	Effect of CTAB on the	Proceedings of the	2012	Yokraj Katre, Kamalini
	oxidation of Butanone by	National Seminar ir		Tripathi, Ajaya Kumar Singh
	NBP	Chemistry Recent	t	
		Trends in Chemica	l	
		Sciences and Future	•	
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1.	Cationic micellar Oxidation	Proceedings of the	2012	Yokraj Katre, Radhika Sharma,

of Salicylaldehyde by N	-National Seminar in	L	Namita	Goyal	,Ajaya	Kumar
Bromophthalimide	Chemistry Recent		Singh			
	Trends in Chemical	l				
	Sciences and Future					
	Prospects, pg. 114-123					

13. Detail of patents.

		- F				
S.No.	Patent Title	Name of	Patent No.	Award	Agency/Country	Status
		Applicants		Date		
1.	Intensified	Ajaya Kumar	German Utiliity Model Patent	19.11.2021	Germany	Granted
	· · · · · · · · · · · · · · · · · · ·	Singh ,Bhawana				
	process using	Jain, Jyoti Patel	German Application number			
	modified zinc		202021106116.2			
	oxide					
	nanoparticles					
	for effective	4				
	dye removal					
	from					
	wastewater					
2.	Photocatalytic	Aiava Kumar	South African Patent	29.06.2022	South Africa	Granted
	Degradation	Singh.Jvoti	Number 2021/10082			
	of drug	Patel, Bhawana				
	amoxicillin	Jain, Anupama				
	and dve	Asthana,				
	sulphon fast	Sunitha B.				
	black-F by	Mathew.				
	Cu:ZnS	Avesha Hashmi				
	Quantum Dot					

14. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
		Bhawana Jain, Ajaya	Woodhead	
	The World Around	Kumar Singh, Md.	Publishing,	
1.	Bottled Water	Abu Bin Hasan Susan	Elsevier (2019).	2019
2.	Tin-Based Materials	Bhawana Jain, Ajaya K	Materials Re	2020

	for Sodium-Ion	Singh, Md. Abu Bin	Forum LLC	
	Batteries	Susan		
3.		Bhawana Jain, Sunita		
	Analytical	Singh, Anupama		
	Investigations in	Asthana, Ajaya		
	Rechargeable	Kumar Singh, Md.	John Wiley &	
	Batteries	Abu Bin Hasan Susan	Sons	2020
4.	Plant Extract:	S. Sreevidya,		
	Isolation, Purification,	KirtanaSankara		
	and Applications of	Subramanian, Yokraj		
	Green Nanomaterials	Katre, Anil Kumar, and	Apple Academic	
	Stabilization	Ajaya Kumar Singh	Press (June 2021)	2021
5.	Recent Advances of	Ayesha Hashmi, S.		
	Green Nanomaterials	Sreevidya, Satish		
	for Agricultural	Kumar Sen, Ajaya	Apple Academic	
	Productivity	Kumar Singh	Press (June 2021)	2021
6.		Aditi Banjare, Ajaya		
		Kumar Singh,		
		Bhawana Jain, Sunita		
		Sanwaria, Rama		
		Shankar Singh, S.		
	Solar Cells: As Cross-	Sreevidya,		
	road Harvesters for	KirtanaSankarasubrama	Materials	
	Power Packed Energy	nian.	Research Forum	2021
7.			Materials	
	Fabrication	Jyoti Patel, Bhawana	Research Forum,	
	techniques for	Jain, AjayaKumar	USA	0001
-	quantum dots	Singh		2021
8.		Sreevidya S,		
		KirtanaSankara		
		Subramanian, Yokraj		
	Green Nanostructures	Katre, Jai Singh, Ajaya		
	Synthesis and Spectrogeoptic	Kumar Singn, Mariya Alakaan draya	C. Jenny Stanford	
	Spectroscopic	and Dahah Khanata	rublishing rte.	2021
0		anu Kaban Kitenata	Liu.	2021
9.	Nonomotorials for	Diceviuya S, KirtanaSankara		
	Nanomaterials for	NiitaliaSalikala Subromonion Voleroi		
	hazard, analysis	Notro A jovo Kumor		
	mazaru: allalysis,	naut, Ajaya Nullar Singh		
	nomoval	omgn		2021
	Functionalized	Sreevidue S		2021
	r uncuonanzeu nanomatorials	Diceviluya D., KirtanaSankara		
	(FNMs) based	Niitallaoallikälä Subramanian Volzeoi		
	catalytic matarials for	Katre A java Kuma r		
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10.	water resources	omgn.		2021

<u>11.</u> 12.	Application of Biosurfactant during the process of biostimulation for effective bioremediation of contaminated environment	ShippiDewangan, Ajaya Kumar Singh		2022
12.	Functionalized Nanomaterials (FNMS) Based Catalytic Materials For Energy Industry	Amarpreet K. Bhatia, ShippiDewangan, Ajaya Kumar Singh , Sónia. A.C. Carabineiro		2021
13.	Book: Magnetic Nanoparticles and Polymer N anocomposites Chapter-11 Magnetic Polymeric Nanocomposites for Medical Applications	Vijayasri.K , Alka Tiwari , Ajaya Kumar Singh	(Elsevier)	In Press
14.	Book: Magnetic Nanoparticles and Polymer Nanocomposites Chapter 12: Magnetic semiconductors and polymer nanocomposites for degradation of organic pollutants and water treatment	Amarpreet K. Bhatia, Shippi Dewangan, Ajaya K. Singh, Md. A.B H. Susan	Elsevier)	In Press
15.	Book Title- Magnetic Nanoparticles and Polymer Nanocomposites Chapter-16 Graphene Oxide-polymer	Ayesha Hashmi, Anupama Asthana, Sunitha B Mathew, Sunita Sanwaria, Ajaya K. Singh	Elsevier)	In Press

	nanocomposites: Synthesis mechanism and developed magnetism, properties and applications in environment			
	Book: Title: "Handboo Natural Polymers, Vo 1-Review comments"			
	Ed., Chapter 14: " <i>Physical o</i>			
16.	chemical impact nanoparticles reinfor alginate-based biomaterials"	S. Sreevidya, S. Ki Yokraj Katre, Ravi Jugade, Ajaya Kumar S	Elsevier	In Press
	Book: Title: "Handboo Natural Polymers, Vo	Authors Name: <i>Rupa</i> <i>Chakraborty</i> . <i>Anupama</i>		
	<i>I-Review comments</i> ", 1 ^s Chapter 25:	Asthana, Ajaya Kumar Singh, Rameshwar Adhi		In Press
17.	"Synthesis Characterisation of Collegen"	ma. Abu Bin Hasan Susan	Elsevier	
	Emerging Nanomaterials an Impact on the society in t Century", 1 st Ed., Chapter 4: "Nanocomposites and Applications"			In Press
18.	Editor(s): N.B. Singh, Mc Bin Hassan Susan, Rati Chaudhary	Authors Name: S Sre Sushma Yadav, Yokraj Katre Kumar Singh, Abbas Rahdar	Materials Research LLC, USA, (in 2022).	

- 15. Any other Information (maximum 500 words)
 - **A. Junior Research Fellowship** in Department of Chemistry, University of Allahabad, U.P., India. (From Feb.10, 1993 to July 18, 1994).
 - **B.** Teacher's Research Fellowship in Department of Chemistry, University of Allahabad, U.P. (From March 17, 2000 to March 16, 2002) awarded by University Grant Commission New Delhi, India.
 - C. Undergraduate and Postgraduate teaching from July1994 till date (nearly 23years).
 - D. Research Paper Published/accepted: 157

H-INDEX: 23 Scopus (26-Google Scholar) i-10-146 Ph.D. supervision: Awarded- 17, Registered- 09

A. Area of Research: Perovskite materials for Solar Cell, Graphene oxide, Synthesis and Characterization of Nano-crystalline Solid Thin films, Quantum dots, Adsorption of heavy metal ions, Advanced Oxidation Process, Micellar Catalysis, Homogeneous Catalysis

https://www.scopus.com/authid/detail.uri?authorld=55487558500

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Membership of Various Educational/Chemical Societies:

- > Honorary Research Fellow, University of KwaZulu-Natal. South Africa
- Member of The National Academy of Sciences India (NASI), Allahabad
- Member, Israel Chemical Society
- Fellow of Royal Society of Chemistry(FRSC)
- Affiliate Member of IUPAC (2009-2010)
- Life member, Society for Materials Chemistry, BARC(LM-1128)
- Life Member, Indian Association of Chemistry Teachers (LM-784)
- Life Member, Luminescence Society of India (LM476)
- Member, American Nano Society
- Life member, Indian Chemical Society, Kolkata (LM-7219)
- Life member, Indian Science Congress Association (ISCA) LM-10849
- Life member of Indian Society for Surface Science & Technology (ISSST), Kolkata (LM- S-70)
- Life member of Indian Council of Chemists (ICC), Agra (LF 1080)
- Life member of Catalysis Society of India (CSI), Chennai
- Life member of Purvanchal Academy of Sciences(PAS), Jaunpur
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Reviewers of the following Journals:

The Journal of Physical Chemistry, Langmuir, ACS Applied Polymer Materials, ACS Applied Nano Materials, Journal of Electronic Materials, Springer, Physica B: Condensed Matter, Elsevier, Chemical Physics Letters, Elsevier, Materials Chemistry and Physics, Elsevier, Analytical Methods, Royal Society of Chemistry, Microchemical Journal, Elsevier, Ionics, Springer, Catalysis Letter, Springer, Journal of Colloid and Interface Science, Elsevier, Journal of Environmental Chemical Engineering, Elsevier, Journal of the Taiwan Institute of Chemical Engineers, Elsevier, Journal of Physical Organic Chemistry, Wiley, Synthetic Communications, Taylor & Francis, Chemical Engineering Journal, Elsevier, Coloration Technology, Wiley, Applied Catalysis A:General, Elsevier, Journal of Medicinal Plants Research,

Academic Journals,Bioremediation Journal, Taylor &Francis,International Journal of Thermo physics, Springer,African Journal of Food Science, Academic Journals,International Journal of Plant Physiology and Biochemistry, Academic Journals, Natural Product Research, Taylor and Francis (UK),,Chinese Medicine, Scientific Research Publishing(USA),African Journal of Pure and Applied Chemistry, Academic Journals,Colloid and Polymer Science, Springer,Journal of Bioinformatics and Sequence Analysis (JBSA), Academic Journals, Journal of Petroleum and Gas Engineering, Academic Journals, The Open catalysis Journal, Bentham Publications,ACADEMIA JOURNAL OF EDUCATIONAL RESEARCH, Academia Publishing,UK