



MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA

NAAC Re-Accredited B+Level Govt. aided College

CPE (Under UGC XII Plan) & NCTE Approved Institutions

DBT Star College Scheme Award Recipient

E-mail : mugberia_college@rediffmail.com // www.mugberiangangadharmahavidyalaya.ac.in

3-3.1 Number of research papers published per teacher in the Journals notified on UGC CARE list during the last five years



Direct link to the research paper, the journal's website



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2018-2019

Sl. No.	Title of the Paper	Name of the Journal	Direct Link to the research paper	Direct Link to the journal's website
1	Synthesis, structure and biological properties of a Co(II) complex with tridentate Schiff base ligand	Journal of Coordination Chemistry	https://www.tandfonline.com/doi/abs/10.1080/00958972.2018.1464654	https://www.tandfonline.com/journals/gcoo20
2	Quantifying conventional C- H.. π (aryl) and unconventional C-H.. π (chelate) interactions in dinuclear Cu(II) complexes: Experimental observations, Hirshfeld surface and theoretical DFT study	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2018/nj/c8nj00747k/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
3	Supramolecular Self-Assembly, DNA interaction, Antibacterial and Cell Viability studies of Cu(II) and Ni(II) Complexes derived from NNN donor Schiff Base ligand	Inorganica Chimica Acta	https://www.sciencedirect.com/science/article/abs/pii/S0020169318306753	https://www.sciencedirect.com/journal/inorganica-chimica-acta
4	Multi-objective municipal solid waste management recycling problem in fuzzy-rough environment	International Journal of Process Management and Benchmarking	https://www.inderscienceonline.com/doi/abs/10.1504/IJPMB.2018.095054	https://www.inderscienceonline.com/journal/ijpmb
5	Use of “e” and “g” operators to a fuzzy production inventory control model for substitute items	RAIRO-Operations Research	https://www.rairo-ro.org/articles/ro/abs/2019/02/ro170033/ro170033.html	https://www.rairo-ro.org/
6	Multi-item Optimal control problem with fuzzy costs and	RAIRO-Operations Research	https://www.rairo-ro.org/articles/ro/abs/20	https://www.rairo-ro.org/

	constraints using Fuzzy variational principle		19/03/ro170378/ro170378.html	
7	A Fuzzy Optimal Control Inventory Model of Product–Process Innovation and Fuzzy Learning Effect in Finite Time Horizon	International Journal of Fuzzy Systems	https://link.springer.com/article/10.1007/s40815-019-00659-1	https://www.springer.com/journal/40815
8	An economic production lot size model for randomly imperfect production system with stock-dependent demand and rework	International Journal of Operational Research	https://www.inderscienceonline.com/doi/abs/10.1504/IJOR.2018.095624	https://www.inderscienceonline.com/journal/ijor
9	EPL models with fuzzy imperfect production system including carbon emission: a fuzzy differential equation approach	Soft Computing	https://link.springer.com/article/10.1007/s00500-019-03967-8	https://www.springer.com/journal/500



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2019-2020

Sl. No.	Title of the Paper	Name of the Journal	Direct Link to the research paper	Direct Link to the journal's website
1	Optimal time-dependent production policy under random time horizon	OPSEARCH	https://link.springer.com/article/10.1007/s12597-019-00407-x	https://www.springer.com/journal/12597
2	A fuzzy production inventory control model using granular differentiability approach	Soft Computing	https://link.springer.com/article/10.1007/s00500-020-05329-1	https://www.springer.com/journal/500
3	Developing Novel Zinc(II) and Copper(II) Schiff Base Complexes: Combined Experimental and Theoretical Investigation on Their DNA/Protein Binding Study and Anticancer Activity	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2020/nj/d0nj03844j/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
4	Modelling a closed-loop supply chain with a heterogeneous fleet under carbon emission reduction policy	Transportation research part e: logistics and transportation review	https://www.sciencedirect.com/science/article/abs/pii/S1366554519304806	https://www.sciencedirect.com/journal/transportation-research-part-e-logistics-and-transportation-review
5	Optimal decisions on pricing and greening policies of multiple manufacturers under governmental regulations on greening and carbon emission	Decision Making: Applications in Management and Engineering	https://dmame-journal.org/index.php/dmame/article/view/46	https://dmame-journal.org/index.php/dmame/index



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2020-2021

Sl. No.	Title of the Paper	Name of the Journal	Direct Link to the research paper	Direct Link to the journal's website
1	Active Bromoaniline–Aldehyde Conjugate Systems and Their Complexes as Versatile Sensors of Multiple Cations with Logic Formulation and Efficient DNA/HSA-Binding Efficacy: Combined Experimental and Theoretical Approach	ACS Omega	https://pubs.acs.org/doi/full/10.1021/acsomega.0c05189	https://pubs.acs.org/journal/acsodf
2	A binuclear chloride bridged Cu(II) and a mononuclear Ni(II) complex: Synthesis, crystal structure, photo catalytic and biological studies	Inorganica Chimica Acta	https://www.sciencedirect.com/science/article/abs/pii/S0020169320312676	https://www.sciencedirect.com/journal/inorganica-chimica-acta
3	Piperidine based effective chemosensor for Zn(II) with the formation of binuclear Zn complex having specific Al(III) detection ability in aqueous medium and live cell images	Journal of Photochemistry & Photobiology, A: Chemistry	https://www.sciencedirect.com/science/article/abs/pii/S101060302100174X	https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry
4	Green 4D transportation problems with breakable incompatible items under type-2 fuzzy-random environment	Journal of Cleaner Production	https://www.sciencedirect.com/science/article/abs/pii/S0959652620324239	https://www.sciencedirect.com/journal/journal-of-cleaner-production
5	Multi-objective green 4-dimensional transportation problems	Computers & Industrial Engineering	https://www.sciencedirect.com/science/article/abs/pii/S0306438620324239	https://www.sciencedirect.com/journal/computers-and-industrial-engineering

	for breakable incompatible items with different fixed charge payment policies		bs/pii/S0360835221000887	rs-and-industrial-engineering
6	Mobile Identities of the Global Parsee in with Cyclists around the world	Dialog 37 (Spring 2021): Journal of the Department of English and Cultural Studies, Panjab University	https://dialog.puchd.ac.in/wp-content/uploads/2022/01/1.-Mobile-Identities-of-the-Global-Parsi-in-With-Cyclists-Around-the-World-.pdf	https://dialog.puchd.ac.in/



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2021-2022

Sl. No.	Title of the Paper	Name of the Journal	Direct Link to the research paper	Direct Link to the journal's website
1	Exploring the Non-covalent Interactions of Dinuclear Cu(II) Schiff Base Complex With Bovine Serum Albumin and Cell Viability Against SiHa Cancer Cell Line	The Journal of Physical Chemistry B	https://pubs.acs.org/doi/abs/10.1021/acs.jpcc.1c05794	https://pubs.acs.org/journal/jpcbfk
2	Development of DNA Intercalative, HSA Binder Pyridine Based Novel Schiff Base Cu(II), Ni(II) Complexes with Effective Anticancer Property: A Combined Experimental and Theoretical Approach	Applied Organometallic Chemistry	https://onlinelibrary.wiley.com/doi/abs/10.1002/aoc.6473	https://onlinelibrary.wiley.com/journal/10990739
3	Synthesis, characterization and multi-dimensional application approach for two distinctive tetranuclear, first-time reported, Fe ³⁺ /Hg ²⁺ and Fe ³⁺ /Cd ²⁺ clusters from a new Fe ³⁺ containing metalloligand	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2022/nj/d2nj03357g/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
4	Response of Ancillary Azide Ligand in Designing a 1D Copper(II) Polymeric Complex along with the Introduction of High DNA- and HAS-Binding Efficacy, Leading to	ACS Omega	https://pubs.acs.org/doi/full/10.1021/acsomega.2c01403	https://pubs.acs.org/journal/acsodf

	Impressive Anticancer Activity: A Compact Experimental and Theoretical Approach			
5	Development of moderately fluorescence active salen type chemosensor for judicious recognition and quantification of Zn(II), Al(III) and SO ₄ ²⁻ : Demonstration of molecular logic gate formation and live cell images studies	Journal of Molecular Structure	https://www.sciencedirect.com/science/article/abs/pii/S0022286022008717	https://www.sciencedirect.com/journal/journal-of-molecular-structure
6	Effect of ancillary ligand on DNA and protein interaction of the two Zn (II) and Co (III) complexes: experimental and theoretical study	Journal of Biomolecular Structure and Dynamics	https://www.tandfonline.com/doi/abs/10.1080/07391102.2021.2001377	https://www.tandfonline.com/journals/tbsd20
7	Easy, Selective and Colorimetric Detection of Zn(II), Cu(II), F-Ions by a New Piperazine Based Schiff Base Chemosensor along with Molecular Logic Gate Formation and Live Cell Images Study	Journal of Photochemistry & Photobiology, A: Chemistry	https://www.sciencedirect.com/science/article/abs/pii/S101060302200048X	https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry
8	Copper(II) Complexes with NNN and NNO Schiff Base Ligands as Efficient Photodegradation Agents for Methylene Blue, Preferential BSA Binder and Biomaterial Transplants	Journal of Photochemistry & Photobiology, A: Chemistry	https://www.sciencedirect.com/science/article/abs/pii/S1010603021004342	https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry
9	Significant photodegradation of carcinogenic organic dyes by a 1D supramolecular heteroleptic Cu (II) complex under sunlight irradiation	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2022/nj/d2nj01112c/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
10	Hydrophobicity induced DNA, BSA binding and biomaterial applications	Applied Organometallic Chemistry	https://onlinelibrary.wiley.com/doi/abs/10.1002/aoc.6640	https://onlinelibrary.wiley.com/journal/10990739

	of a heteroleptic Cu(II) complex			
11	Multi-objective green 4-dimensional transportation problems for damageable items through type-2 fuzzy random goal programming	Applied Soft Computing	https://www.sciencedirect.com/science/article/abs/pii/S156849462200730X	https://www.sciencedirect.com/journal/applied-soft-computing
12	Conceptual and Perceptual Perspectives of Virtual Reality	Philosophy and the Life-world	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=NQczh-AAAAAJ&citation_for_view=NQczh-AAAAAJ:kc_bZDykSQC	http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/94
13	Understanding the Lokasamgraha of Bhagavad Gītā as the Unique Scheme of Human Welfare	Online International Interdisciplinary Research Journal(OIIRJ)	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=NQczh-AAAAAJ&citation_for_view=NQczh-AAAAAJ:YOwf2qJgpHMC	http://oiirj.org/oiirj/



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2022-2023

Sl. No.	Title of the Paper	Name of the Journal	Direct Link to the research paper	Direct Link to the journal's website
1	Synthesis and crystal structures of two tri- and tetra-heterometallic Ni(II)–Mn(II)/Ni(II)–Co(III) complexes from two different Ni(II)-containing metalloligands: effective catalytic oxidase activity and Schottky device approach	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2022/nj/d2nj03535a/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
2	Biophysical insights into the binding capability of Cu (II) schiff base complex with BSA protein and cytotoxicity studies against SiHa	Heliyon	https://www.cell.com/heliyon/pdf/S2405-8440(22)02633-0.pdf	https://www.sciencedirect.com/journal/heliyon
3	DNA/Protein Binding and Apoptotic-Induced Anticancer Property of a First Time Reported Quercetin–Iron(III) Complex Having a Secondary Anionic Residue: A Combined Experimental and Theoretical Approach	ACS Omega	https://pubs.acs.org/doi/full/10.1021/acsomega.2c05790	https://pubs.acs.org/journal/acsodf
4	Solvent-regulated fluorescence off–on signaling of Ni (II) and Zn (II) with the formation of two mononuclear complexes with an ATP detection ability by Zn (II) assembly	Analyst	https://pubs.rsc.org/en/content/articlelanding/2023/an/d2an01938h/unauth	https://www.rsc.org/journals-books-databases/about-journals/analyst/

5	Unveiling the catecholase activities and DNA binding interaction of mono-, di-, and polymeric Cu (ii) complexes derived from heterogeneous Schiff base ligands	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2023/nj/d2nj05462k/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
6	Development of a novel AIE active piperazine appended chemosensor for solvent-regulated selective detection of IIB elements [Zn(ii), Cd(ii), Hg(ii)], Cl ⁻ and picric acid <i>via</i> varying emission colors to distinguish one another: environmental and biological applications	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2023/nj/d3nj00989k/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
7	Combined theoretical and experimental insights on DNA and BSA binding interactions of Cu(II) and Ni(II) complexes along with the DPPH method of antioxidant assay and cytotoxicity studies	RSC Advances	https://pubs.rsc.org/en/content/articlehtml/2023/ra/d2ra08341h	https://www.rsc.org/journals-books-databases/about-journals/rsc-advances/
8	DNA/HSA binding and anticancer properties of pendant acetate bearing mono-nuclear Ni(ii) and bridging acetate bearing di-nuclear Cu(ii) Schiff base complexes: an experimental and molecular docking study	New Journal of Chemistry	https://pubs.rsc.org/en/content/articlelanding/2023/nj/d3nj02960c/unauth	https://www.rsc.org/journals-books-databases/about-journals/njc/
9	Selective recognition of Zn(II) by a novel Schiff base chemosensor with the formation of an AIE active Zn(II) complex having picric acid detection ability: Application in live cell imaging study	Journal of Photochemistry and Photobiology A: Chemistry	https://www.sciencedirect.com/science/article/abs/pii/S1010603023006792	https://www.sciencedirect.com/journal/journal-of-photochemistry-and-photobiology-a-chemistry
10	Effect of an amine-aldehyde condensate modifier on the thermal and mechanical properties of fiber-	Pigment & Resin Technology	https://www.emerald.com/insight/content/doi/10.1108/PRT-01-2023-0009/full/html	https://www.emeraldgroupublishing.com/journal/prt

	reinforced epoxy composites			
11	A multi-spectroscopic and molecular docking approach for DNA/protein binding study and cell viability assay of first-time reported pendent azide bearing Cu(II)-quercetin and dicyanamide bearing Zn(II)-quercetin complexes	Heliyon	https://www.cell.com/heliyon/pdf/S2405-8440(23)09920-6.pdf	https://www.sciencedirect.com/journal/heliyon
12	In Vitro Insight on Antifungal-Specific Potentiality of Ni(II) Complex against Colletotrichum siamense and Fusarium equisetum Phytopathogens	ACS Applied Bio Materials	https://pubs.acs.org/doi/abs/10.1021/acsabm.3c00590	https://pubs.acs.org/journal/aabmcb
13	Nuclear modification factor of average D mesons in an anisotropic quark–gluon plasma at the LHC energies	The European Physical Journal - Plus	https://link.springer.com/article/10.1140/epjp/s13360-023-04208-6	https://www.springer.com/journal/13360
14	Reliability Dependent Imperfect Production Inventory Optimal Control Fractional Order Model for Uncertain Environment Under Granular Differentiability	Fuzzy Information and Engineering	https://www.tandfonline.com/doi/full/10.1080/16168658.2022.2152885	https://www.tandfonline.com/action/journalInformation?journalCode=ftie20
15	Product process innovation model of fuzzy optimal control of nonlinear system with finite time horizon under granular differentiability concept	OPSEARCH	https://link.springer.com/article/10.1007/s12597-023-00630-7	https://www.springer.com/journal/12597
16	Two-stage multi-item 4-dimensional transportation problem with fuzzy risk and substitution	Journal of Ambient Intelligence and Humanized Computing	https://link.springer.com/article/10.1007/s12652-023-04614-9	https://www.springer.com/journal/12652
17	Tagore's Philosophy of Creation: A New Dimension in Art and Culture	Philosophy and the Life-world	http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/6877	http://inet.vidyasagar.ac.in:8080/jspui/handle/123456789/94

18	Effect of Yoga on Insulin Resistance in Type 2 Diabetes: A Systematic Review and Meta-Analysis	Clinical Diabetology	https://journals.viamedica.pl/clinical_diabetology/article/view/94594	https://journals.viamedica.pl/clinical_diabetology/article/view/94594
19	Effect of Yoga and Walking on Glycemic Control for the Management of Type 2 Diabetes: A Systematic Review and Meta-analysis	Journal of the ASEAN Federation of Endocrine Societies	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10692414/	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC10692414/
20	A sustainable pollution control fuzzy production inventory model with imperfect and breakable items through Pontryagin Maximum principle	Journal of Intelligent & Fuzzy Systems	https://scholar.google.com/citations?view_op=view_citation&hl=en&user=Dx-zSc8AAAAJ&sortby=pubdate&citation_for_view=Dx-zSc8AAAAJ:9yKSN-GCB0IC	https://content.iospress.com/journals/journal-of-intelligent-and-fuzzy-systems/Pre-press/Pre-press
21	Stability analysis of fuzzy differential equation for prey-predator system under z-number fuzzy and granular differentiability concept	RAIRO-Oper. Res.	https://www.rairo-ro.org/component/article?access=doi&doi=10.1051/ro/2023194	https://www.rairo-ro.org/



Dr. Swapan Kumar Misra

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