

Dr. Mrs. Sonali Sandeep Kokane **Associate Professor, Department of Chemistry**

SATISH PRADHAN DNYANASADHANA **COLLEGE, THANE Off Eastern Express Highway,** Dnyanasadhana Marg, Thane

		Vidwan ID: 557771
Department	:	Chemistry
Name of the Faculty	:	Dr. Sonali Kokane
Designation	:	Associate Professor
Qualification/s	:	M. Sc., Ph. D.
Email ID	:	sonalikokane@gmail.com
Years of Experience	:	UG: 15 PG: 10 Research: 13
Thrust Area (Subject Interest)	:	Material Science
Details of Paper Presented	:	1. Presented a paper titled "Intellectual Property Rights of genetically modified seeds" at an International conference titled "Opportunities and Challenges in Agriculture, Environmental, and Biosciences for Global Development" on 29th October at Goa, India
		2. Magnetic moments in multi-centric spins in Molecule-based Magnets Sonali Kokane and Niranjara Chahande Proceedings of International Conference on ADVANCED MATERIALS FOR PHYSICAL, CHEMICAL AND BIOLOGICAL APPLICATIONS (ICAMPCBA-23) (March 3 & 4, 2023) organized by Rayat Shikshan Sanstha's KARMAVEER BHAURAO PATIL COLLEGE

- VASHI, (Accredited by NAAC with "A+" Grade)
 NAVI MUMBAI, MAHARASHTRA, INDIA
 (ISBN 977-81-19175-78-4).
- 3. The Intellectual Property Rights of Artificial Intelligence-based Inventions
 Sonali Kokane, Journal of Scientific Research,
 Volume 65, Issue 2, pages 116-119 ISSN NO.
 0447- 9483; March 2021
 http://dx.doi.org/10.37398/JSR.2021.650223;
 https://www.bhu.ac.in/research_pub/jsr/index.htm
 1; (To assess the website of Journal)
 https://www.bhu.ac.in/research_pub/jsr/Volume_6
 5_02_2021.html; (To assess the March issue)
- 4. Synthesis of palladium nanocages by electroless reduction of palladium(II)chloride by silver nanoparticles for possible applications as the catalysts for enhancement in catalysis of palladium catalyzed coupling reactions.

 Santanu Lanke, Gaourav Rao, V.V. N. Ravi Kishore, Sonali Kokane and Vijay Balsaraf.

Journal of Advances in Science and Technology (ISSN No. 0971-9563) Vol 14 (2),
December 2014, pp.233-238

- 5. Published paper in proceedings of two day National Conference on Recent Developments in Synthetic and Materials Chemistry held in N.E.S Ratnam College on 16th and 17th January 2015. The paper was titled "An overview of TiO₂ and TiS₂" Farahat Ansari and Sonali Kokane ISBN: 978-81-922163-5-5.
- 6. Presented a paper titled "The History of Organic Semiconductors including Conducting Polymers" at the state level seminar on History of Science, Technology, Medicine and Environment on 17th September, 2014. This was UGC sponsored 8th Dr. Mani Kamerkar Memorial State level seminar hosted by Department of History, Satish Pradhan Dnyanasadhana College.
- 7. Synthesis of a new trimetallic paramagnet based on the 'Cl₂opba' ligand
- S. A. Chavan, M. Tokumoto and J. V. Yakhmi

DAE Solid State Phys. Symp., held at Kurukshetra (India) in Dec'98

8. Observation of a photomaganetic effect in a molecular magnet

M. D. Sastry, R. M. Kadam, M. K. Bhide, S. A. Chavan, J. V. Yakhmi and O. Kahn DAE Solid State Phys. Symp., 40C (1997) 428 9. EPR investigations on molecular ferromagnet $[Ni(pn)_2]_3[Fe(CN)_6]_2.nH20, (T_C=18K)$ M. K. Bhide, M. D. Sastry, E. V. K. Sureshkumar, H. B. Singh, A. K. Sra, S. A. Chavan and Yakhmi, DAE solid state Physics Symposium, 40C (1997) 429 10. A new bimetallic ferromagnet based on 1,2propane diamine ligand E. V. K. Sureshkumar, S. A. Chavan, H. B. Singh and J. V. Yakhmi DAE solid State Physics Symposium, 39C (1996) 89 11. Magnetic studies on some MnCu-based organic ferromagnets S. A. Chavan, J. V. Yakhmi, V. K. Jainand R. Ganguly Presented **NATO** Advanced Research at Workshop on 'Magnetism: a Supramolecular f unction', at Carcans-Maubisson (France), Sept.16-20, 1995 12. Negative remanence in the organic magnet $(NBu_4)_2Mn_2[Cu(opba)]_3$. S. A. Chavan, J. V. Yakhmi, V. K. Jain and R. Ganguly DAE solid State Physics Symposium, 38C (1995) 13. Magnetization behaviour of CoCu(obbz).2H₂O S. A. Chavan, J. V. Yakhmi, P. Bergerat and O. DAE solid State Physics Symposium, 38C (1995) 15 14. Ferromagnetism in MnCu(obbz).nH₂O S. A. Chavan Oral Presentation at 31st Annual Convention of Chemists at BHU, Varanasi, on 21st (Selected the Prof. Santi R. Palit awardee, 1994 in Phys. Chem.) 15. The organic ferromagnet MnCu(obbz).nH₂O: Synthesis and Magnetization S. A. Chavan, J. V. Yakhmi and I. K.

DAE solid State Physics Symposium, 37 (1994)

Gopalakrishnan

129

		16. Charge transfer behaviour of bis(methylethylenedithio)-tetrathiafulvalene (BMeEDT-TTF) complexes E. V. K. Sureshkumar, H. B. Singh, S. A. Chavan and J. V. Yakhmi Solid State Physics (India) 38C (1995) 273 17. Sonochemical synthesis of k-(BEDT-TTF) ₂ Cu(NCS) ₂ and its superconducting properties E. V. K. Sureshkumar, H. B. Singh, S. A. Chavan and J. V. Yakhmi Solid State Physics (India) 37C (1994) 312
Details of Publication	•	 Phytochemical characterization of the leaves of Saraca indica and investigation of the antimicrobial and the antioxidant properties of the saponin-rich extract of the leaves Siddhesh Pote, Gaganjyot Kaur and Sonali Kokane International Journal of Plant and Environment. (In Press). Therapeutic Potential of Cannabis Plant Siddhesh Pote, Parul Khurana, Gaganjyot Kaur and Sonali Kokane International Journal of Plant and Environment. ISSN Print: 2264-1117 ISSN Online: 2455-202X 9(3), 192-201. An Analytical study of what cannot be patented in the jurisdiction of India Sonali Kokane Journal of Intellectual Property rights, NISCAIR publication, Volume 25, November 2020, ISSN: 0975-1076 (Online) ISSN: 0971-7544 (Print) A review on Carbon-based electrode materials for supercapacitors. Sonali Kokane International Journal of Scientific Research in Engineering and Management, 2020 Volume04, Issue 06, ISSN:2582-3930 (UGC care-listed) The future of Organic Electronics Sonali Kokane, Entire Research, Vol-X, Issue 11, 53-56, ISSN:0975-5020 Study of stabilizers as special additives to acid hypophosphite solutions for Electroless nickel plating.

- Sonali Kokane, International journal of scientific research and management, ISSN: 2582-3930, volume 04, Issue 06, June 2020
- 7. Correlation between stability constants of organic acids and their effect on the rate of deposition in non-electrolytic Nickel baths
 - S. S. Kokane, F. N. Ansari, R. P.Chavan and G. R. Bhagure,
 - South-Asian Journal of Multidisciplinary studies: ISSN: 2349-7858 volume 2 issue 2, 2015.
- 5. Time resolved photoluminescence spectra of PPV film: heterogeneity and excited state relaxation.
- V. V. N. Ravi Kishore, <u>Sonali Kokane</u>, K. L. Narasimhan, N. Periasamy Chemical Physics Letters 386 (1-3) pages 118-112 (2004)
 - Photophysics of PPV and Alq a comparison
 V. V. N. Ravi Kishore, N. Periasamy, <u>Sonali</u>
 Kokane and K. L. Narasimhan

Synthetic Metals 132 (2003) 235-238

7. Modified CVD deposition of poly(p-phenylene vinylene)

Sonali Kokane, M. Patankar, K.L. Narasimhan,

N. Periasamy

Synthetic Metals 9551 (2002) 1–4

- 8. $(NBu_4)_2Mn[Cu(opba)]_2$: a new structural class among 'opba' bimetallic magnets.
- H. Stoekli-Evans, A. Neels, <u>S. A Chavan.</u> and J. V. Yakhmi

Synthetic Metals, (2000) 106-114

- 9. Magnetic behaviour of Ni-Fe hexacyanates as influenced by change of ligand
 - P. Ghalsasi, R. Ganguly, <u>S.A. Chavan</u> and J. V. Yakhmi

Mol.Cryst. Liq. Cryst. 79 (1998) 127

- 10. Photo-induced changes in the magnetic order of (NBu₄)₂Mn₂[Cu(opba)]₃.6DMSO.1H₂O
- M. D. Sastry, M. K. Bhide, R. M. Kadam, <u>S. A.</u> <u>Chavan</u>, J. V. Yakhmi and O. Kahn

Chem. Phys. Lett. 301 (1999) 385

- 11. Ferromagnetism at 19K in a bimetallic compound based on 1,2-propane diamine ligand
- E. V. K. Suresh Kumar, <u>S.A. Chavan</u>, A. K. Sra, M. K. Bhide, M. D. Sastry, R. Ganguly, H.

- B. Singh and J. V. Yakhmi, Philos. Mag. B 79 (1999) 127

 12. Magnetic behaviour of the molecular sponges CoCu(pba)(H₂O)₃.2H₂O where pba=1,2-propylene bis(oxamato)

 S. A. Chavan, Joulia Larionova, J. V. Yakhmi and
 - Philosophical. Mag. B 77 (1998) 1657

O. Kahn,

- 13. Magnetic Molecular SpongesS. A. Chavan, O. Kahn and J. V. Yakhmi,Indian Journal of Pure and Applied Physics (1998)p.
- 14. Dramatic modifications of magnetic properties through dehydration-rehydration process of the molecular magnetic sponges CoCu(obbz)(H₂O)₄.2H₂O and CoCu(obze)(H₂O)₄.2H₂O with obbz=oxamidobis(N,N'-benzoato) and obze=oxamido-N-benzoato-N'-ethanoato Joulia Larionova, Suvarna Chavan, J. V. Yakhmi, Anne Gulbrandsen, J. Sletten, Claude Sourisseau and Olivier Kahn, Inorganic Chemistry 36 (1997) 6374
- 15. An EPR study of spin correlations and existence of ordered and disordered phases in (NBu₄)₂Mn₂[Cu(opba)]₃.6DMSO.1H₂O
- R. M. Kadam, M. D. Sastry, M. K. Bhide, S.A. Chavan, J. V. Yakhmi and O. Kahn

Chemical Physics Letters 281 (1997) 292

- 16. Muon spin relaxation studies on the ferromagnet $MnCu(obbz).1H_2O$
- R. Cywinski, J. V. Yakhmi, <u>S. A. Chavan</u>, S. P. Cotrell and O. Kahn

Synthetic Metals 85 (1-3) (1997) 1751

- 17. Coexistence of spin fluctuations and magnetic order in (NBu₄)₂Mn₂[Cu(opba)]₃: EPR evidence
- R. M. Kadam, M. D. Sastry, <u>S. A. Chavan</u>, J. V. Yakhmi and O. Kahn

Molecular Crystals Liquid Crystals 305-306 (1997)

18. Magnetization behaviour of (NBu₄)₂Mn₂[Cu(opba)]₃ and rlated solvated ferromagnets

S. A. Chavan, R. Ganguly, V. K. Jain and J. V. Yakhmi

Journal of Applied Physics 79 (8) (1996) 5260

		19. Observation of negative remanence in an organic
		ferromagnet
		S. A. Chavan, J. V. Yakhmi, R. Ganguly, and V.
		K. Jain
		Current Science 70 (1996) 234
		20. Molecular Organic Ferromagnets
		J. V. Yakhmi and <u>S. A. Chavan</u>
		Physics News 27 (1996) 13-19
		21. Magnetism in binuclear compounds
		MCu(obbz).nH ₂ O with M=Mn or Co
		S. A. Chavan, J. V. Yakhmi and I. K.
		Gopalakrishnan
		Molecular Crystals Liquid Crystals. 274 (1995)
		11-16
		22. Molecular Ferromagnets – a review
		S. A. Chavan, J. V. Yakhmi and I. K.
		Gopalakrishnan
		Material Science & Engineering (C) 3 (1995) 175
Details of Patent	:	Process for manufacturing the organic conducting
Details of Tatent	•	polymer Poly(p-phenylenevinylene) for Electronic
		Applications by Light Induced Dehydrochlorination
		Sonali Kokane, K. L. Narasimhan, N. Periasamy and
		Meghan Patankar
		Tata Institute of Fundamental Research
		Indian Patent no: 215159
		URL: http://ipindiaservices.gov.in/PatentSearch/Patent
		Search//ViewApplicationStatus
Details of	:	1. Indo-German-Teachers-Program on Organic
Seminar/Workshop/Confere		Electronics, Kalina Campus, on 2 nd December
nces/Symposia attained		2017
		2. Orientation Course at Programme Officers of
		NSS at Empanelled Training Institute
		Ahmednagar from 23 rd Nov to 29 th Nov 2016
		3. Revised Syllabus workshop for SYBSc, Royal
		College, Mira Road, on 16 th June 2017
		4. Revised Syllabus for T.Y.B.Sc. in the subject of
		Chemistry and Choice Based Credit System on
		July 27, 2018 at KM Agarwal college,Kalyan.
		5. Seven days workshop in GN Khalsa College from
		17 th to 24 th March 2021 in "Advanced Course for
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		education in biotechnology and soft skill development"
Details of Book Authored	:	"Elementary Magnetism for Chemists" ISBN: 978-93-92168-56-7
No. of Research Scholar Registered	:	Ph.D.: 03
Details of Projects	:	Minor Research Project: University of Mumbai titled "Role of Organic Acids in Electroless Nickel bath and their stabilization thereof" in AUGUST 2014.
Experience on the various Committees at the University of Mumbai	:	BOS, Applied Component, TYBSc OSM committee PhD interview panel Paper setting for TYBSc
Experience on the various Committees at College	:	 IPR Committee Students Activity Centre NSS Science Admission Committee, Member Remedial Cell, Member Research and Development Cell, member Proposal for various Awards and Recognition, Member Incubation cell
Membership	:	The Indian Science Congress Association International Society for Environmental Botanists
Awards and Recognitions	:	WIPO (UN) Scholarship to attend the face-to face component of AICC at Seoul, Korea in October 2018

Any Other Information : Registered Patent Agent