

Name	Dr. Shrikrishna D. Sartale
Qualification	M.Sc., Ph.D.
Designation	Reader
Specialization	Material Science
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1 Education

	Course
1	Ph.D.
2	M.Sc.
3	B.Sc.

2 Career Profile

	Organisation / Institution
1	National Institute for Materia
2	National Central University, T
3	Helmholtz-Zentrum Berlin fü

3 Teaching Experience (Subjects/Courses Taught)

BPL1, Statistical Mechanic

4 Research Interests / Specialization

Nanoscale Science, Thin F

5 Honors & Awards

Alexander von Humboldt (

6 Publication - Books, Journals, Articles (peer reviewed)

	Year of Publication
1	2008
2	2008
3	2008

4	2007
5	2007
6	2006
7	2006
8	2006
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10	2006
11	2006
12	2005
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31	2001
32	2001
33	2000
34	2000
35	2000
36	2000
37	2000
38	2000

7 Publication - Conference Presentations

8 Professional Societies Memberships

9 Public Service / University Service / Consulting Activity

10 Projects (Major Grants / Collaborations)

11 Other Details

An electrochemical process for deposition of CuFe₂O₄, NiFe₂O₄ and CoFe₂O₄ ferrite thin films at room temperature, C. D. Lokhande and S. D. Sartale, An Indian Patent IN200300362-I3 (11 Feb 2005)

Referee for many Internati

Institution	Year	Details
Shivaji University	2002	
Shivaji University	1998	First Class
Shivaji University	1996	First Class

Designation	Duration
NIMS Fellow	July 2007-April 2008
Post-doctorate Fellow	July 2004-June 2007
Alexander von Humboldt Fello	July 2003-June 2004

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film Physics, Surface Science, Solar Cell, Fuel Cell, Catalysis, Tribology

2003) and Japan Society for Promotion of Science (JSPS) (2007) Fellowships. Also invited to attend the Nobel

Title	Co-Author	Book/Journal/Article
<i>Atoms, Molecules and Nanoparticles</i>	A. A. Tseng, M. F. Lu	“Nanofabrication: Fundamentals and Application”, Ed. A.
<i>Adsorption and decomposition</i>	H. W. Shiu, M. H. Ten,	<u>Journal of Physical Chemistry C</u> 112 (2008) 2066-2073
<i>Growth and electronic properties</i>	M.F. Luo, H.W. Shiu, M.	<u>Surface Science</u> 602 (2008) 241-248
	H. W. Shiu, W. H. Wei,	
<i>Dehydrogenation of cyclohexene</i>	M. F. Luo, and Y. J. Shiu	<u>Catalysis Letters</u> 119 (2007) 95-100.
<i>Structures of Co and Pt nanoclusters</i>	M. F. Luo, W. H. Wen, C.	<u>Surface Science</u> 601 (2007) 2139-2146.
<i>Scanning tunneling microscopy</i>	H. W. Shiu, M. H. Ten,	<u>Surface Science</u> 600 (2006) 4978-4985.
<i>Engineering of patterns of C60</i>	K. L. Lin, C. I. Chiang, M	<u>Applied Physics Letters</u> 89 (2006) 063118: 1-3.
<i>Growth of Co clusters on thin film</i>	M. F. Luo, C. I. Chiang,	<u>Journal of Chemical Physics</u> 124 (2006) 164709: 1-6.
<i>Patterning Co nanoclusters on C60</i>	M-F Luo, C. I. Chang, F	<u>Nanotechnology</u> 17 (2006) 360-366.
<i>Room temperature chemical synthesis</i>	R. B. Kale, V. Ganesan,	<u>Applied Surface Science</u> 253 (2006) 930-936
<i>Chemical and electrochemical deposition</i>	B. R. Sankapal, M. Ch.	<u>Comptes Rendus Chimie</u> , 9 (2006) 702-707.
<i>A Room Temperature Twinkling</i>	C. D. Lokhande	<u>Journal of Electroceramics</u> , 15 (2005) 35-44
<i>Room temperature synthesis</i>	R.S. Mane, Yun Hee Hwa	<u>Applied Surface Science</u> , 246 (2005) 271-278.
<i>Preparation of Nanocrystalline</i>	B. R. Sankapal, M. Lux-embury	<u>Thin Solid Films</u> , 480-481 (2005) 168-172.
<i>Electrochemical deposition</i>	V. Ganesan, C. D. Lokhande	<u>Physica Status Solidi a</u> , 202 (2005) 85-94.

Spray pyrolysis deposition of G. D. Bagde and C. D. Lo Materials Chemistry and Physics, 89 (2005) 402-405.

Growth and characterization R B Kale, B K Chougule & Semiconductor Science and Technology, 19 (2004) 980-986.

Chemical synthesis of Cd-Fre B. R. Sankapal, C. D. Lok Solar Energy Materials & Solar Cells, 83 (2004) 447-458.

Novel electrochemical process C. D. Lokhande, M. Giers Journal of Physics: Condensed Matter, 16 (2004) 773-784.

Deposition and annealing effect G. D. Bagde and C. D. Lo Thin Solid Films, 445 (2003) 1-6.

Spray pyrolytic deposition on G. D. Bagde and C. D. Lo Applied Surface Science, 214 (2003) 27-35.

Spray deposition of lanthanum G. D. Bagde and C. D. Lo Materials Chemistry and Physics, 80 (2003) 714-718.

Electrochemical synthesis of C. D. Lokhande and M. M Materials Chemistry and Physics, 80 (2003) 120-128.

Electrochemical synthesis of C. D. Lokhande Ceramics International, 28 (2002) 467-477.

A novel method for the deposition C. D. Lokhande, B. R. Sar Applied Surface Science, 182 (2001) 413-417.

Room temperature synthesis (G. D. Bagde C. D. Lokhar Applied Surface Science, 182 (2001) 366-371.

Preparation and characterization C. D. Lokhande Materials Chemistry and Physics, 72 (2001) 101-104.

Studies on large area (~ 50 cm²) C. D. Lokhande Materials Chemistry and Physics, 71 (2001) 94-97.

Effect of annealing on the structure C. D. Lokhande Indian Journal of Physics, 75A (2001) 375-378.

Electrochemical deposition of C. D. Lokhande Materials Chemistry and Physics, 70 (2001) 274-284.

Electrodeposition and characterization C. D. Lokhande Solid State Physics (India), 44 (2001) 573-574.

Magnetic properties of spray C. D. Lokhande Solid State Physics (India), 44 (2001) 417-418.

Room temperature preparation C. D. Lokhande Indian Journal of Engineering and Materials Science, 7 (2000) 1345-1353.

Preparation and characterization C. D. Lokhande Materials Research Bulletin, 35 (2000) 1345-1353.

Deposition of cobalt sulphide C. D. Lokhande Indian Journal of Pure and Applied Physics, 38 (2000) 48-52.

Growth of copper sulphide C. D. Lokhande Materials Chemistry and Physics, 65 (2000) 63-67.

Spray pyrolysed lanthanum G. D. Bagde, B. R. Sankapal Solid State Physics (India), 43 (2000) 540-541.

Effect of annealing on electrical H.M. Pathan and C. D. Lo Solid State Physics (India), 43 (2000) 314-315.

1. *Scanning tunneling microscopy (STM) : a versatile tool in nanotechnology*
S. D. Sartale, C. I. Chiang, H. W. Shiu, K. L. Lin and M. F. Luo
Proceeding of National seminar on materials for advanced technology, 23-25 Jan. 2000
2. *Fabrication of electroplated CuInS₂ thin film based solar cells*
S. D. Sartale, A. Ennaoui, and M. Lux-Steiner
Proceeding of 19th European Photovoltaic Solar Energy Conference and Exhibition
3. *Preparation and characterization of MnS and MnS₂ thin films deposited by modified chemical bath deposition*
S.S. Kulkarni, **S. D. Sartale**, H. M. Pathan and C.D. Lokhande
Proceeding of National Seminar on Electro and Magneto Ceramics, Devices and Systems
2. *A novel electrochemical process for nanocrystalline ferrite thin film deposition*
C. D. Lokhande, S. S. Kulkarni and **S. D. Sartale**
Proceeding of National Seminar on Electro and Magneto Ceramics, Devices and Systems
4. *Effect of annealing on electrical properties of electrosynthesized CuFe₂O₄ thin films*
S. D. Sartale, S. A. Patil and C. D. Lokhande,
Proceeding of International workshop on Preparation and Characterization of Technological Materials
5. *Preparation and characterization of CuFe alloy films and their anodization*
S. D. Sartale and C. D. Lokhande

Proceeding of DAE-BRNS National Symposium on Recent Trends in Electro and M

6. *Studies on large area (50 cm^2) MoS_2 thin films deposited using successive ionic layer adsorption and reaction*
S. D. Sartale and C. D. Lokhande,
‘Physics of Semiconductor Devices’ Vol. II, Editors, Vikram Kumar and S. K. Agarwal
7. *Electrodeposition and characterization of CuFe alloy thin films and their anodization*
S. D. Sartale and C. D. Lokhande
‘Advances in Electronic Materials Devices & Systems’, Editors A. B. Kulkarni, Sara
8. *Studies on arsenic trisulphide thin films deposited using successive ionic layer adsorption and reaction (SILA)*
S. D. Sartale, B. R. Sankpal, R. S. Mane and C. D. Lokhande
‘Advances in Electronic Materials Devices & Systems’, Editors A. B. Kulkarni, Sara
9. *A simple method for the deposition of antimony trisulphide thin films*
B. R. Sankpal, R. S. Mane, **S. D. Sartale** and C. D. Lokhande,
‘Advances in Electronic Materials Devices & Systems’, Editors A. B. Kulkarni, Sara
10. *Preparation and characterization of Cu_xS thin films by successive ionic layer adsorption and reaction (SILAR)*
S. D. Sartale, R. S. Mane, B. R. Sankpal and C. D. Lokhande,
‘Condensed Matter Physics’, Editors, B. K. Agarwal and Hari Prakash, Narosa Publishing House

All India Association of Doctor of Philosophy (Ph.D.)
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Institute of Physics, London, UK.

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A. Tseng, World Scientific Publishing Company (June 2008) pp 1-32.

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7-11 June 2004, Paris, France, Eds. W. Hoffmann, J. L. Bal, H. Ossenbrink, W. Palz, P. Helm. (2004) pp 1988-1992

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Fatima Farida & P. V. Hunagund, Gulbarga University, Gulbarga, India,(1999), pp. 166-169.

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