

Dr. Rajesh R.Patil

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A) GENERAL INFORMATION :

- a) **Name :** Rajesh R.Patil
- b) **Designation :** Associate Professor(**M.P.S.C**)
- c) **Department :** Physics Institute of forensic science Nagpur
- d) **Area of Specialization :** Solid State Physics, Electronics
- e) **Date of Appointment :**
 - i) In the Institution :**24/07/2015**
 - ii) In the present post : **22/2/2012**

B) Classes Taught(during last three years)

YEAR	CLASS	
	BSc.	MSc.
2017-21	BSc.	MSC.I, MScll

C) RESEARCH CONTRIBUTIONS :

- a) Ph.D Students:

Sr. No.	Name of the Student	Admission Date	Status
1	Ms Aarti Mule	2004	Awarded
2	Ms. Rujata Barve	2008	Awarded
3	Mrs. Sonali Umesh Gaikwad	14-7-2008	Awarded
4	Ku Minal Takerkhede	14 Jul.2013	Awarded
5	Ku Anita Rupchand Patle	14 -1-2010	Awarded
6	Shri. Milind S. Jog	14 -7-2010	Awarded
7	Mrs Suwarna M. Sawade	13.1.2011	Awarded
8	Mr Rajendra Mungmode		Awarded

- b) No of Research Papers Published : **See Annexure I**
50 in international journals 30 in conferences

c) Research Projects

S.No	Project Title	Funding Agency	Status	Amount
1	Synthesis and characterization of some luminescent materials in nanoform"	U.G.C	Completed	98,000
2	Development of Highly Sensitive O.S.L Phosphors for radiation dosimetry	B.R.N.S	Completed	19.95 lacs
3	Development of Lithium based, tissue equivalent Highly Sensitive, Optically Stimulated Luminescence (OSL) Phosphors for Radiation Dosimetry Applications.	B.R.N.S	Completed	29.58 lacs

D) IMPROVEMENT OF PROFESSIONAL COMPETENCE

- 1) Details of Seminars Conferences Symposia ,workshop,orientation , refresher course attended
See Annexure II

- 2) Details of Seminars Conferences Symposia workshops organized

Co-Convener of the two day National conference on “ **Recent Trends in Basic and Applied Materials**” 10-11 January 2009 at Institute of Science Nagpur.

E) Membership of university / professional bodies/ editorship of journals

- a) Life member of Materials Research Society No.LM B493
- b) Life member of Luminescence Society of India LM 467
- c) Executive Member of Luminescence society of India(Mah. Chapter) No.LSIMAH2011/4
- d) Member of Indian Association for Radiation Protection : LM-1366

F) EXTENSION WORK/COMMUNITY SERVICE :

See Annexure III

G) PARTICIPATION IN INSTITUTIONAL ACTIVITIES :

See Annexure IV

Awards:

1) Awarded Junior Research Fellowship in the Scheme entitled "Thermoluminescence and Lattice defects in Li_2O " sponsored by DAE.

2) Passed **NET** conducted by **C.S.I.R** and awarded

a) Junior Research Fellow : 1992-1994

b) Senior Research Fellow : 1994-1996

c) Research Associate: 1996-1997

3) Awarded associateship by **Physical Research Laboratory Ahmedabad** for the work on Development of highly sensitive Quartz and Feldspar based Phosphors for dating applications

Achievements and Experience: Annexure V

Present Research Interest: : Luminescence in nanostructured materials and OSL Materials

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R.R.Patil

ANNEXURE III

- A) Worked as a Presiding officer in various Loksabha and Vidhansabha Municipal corporation elections in the period 2004-2012
- B) Worked as a observer in the BEd. CET in the period 2005-2012
- C) Worked as a Chief of school inspection team during special school inspection drive October 2011
- D) One of member of founder team of Institute of Forensic Science Nagpur

ANNEXURE IV

- 1) Worked as **Head of the Department of Computer Science Institute of Science Nagpur 2004-2006**
- 2) **Presently working as a Head of the Department of Electronics**
- 3) Worked as Coordinator for the **Mahindra British Telecom Campus selection August 2005**
- 4) Worked in various **purchase** committees
- 5) Worked as In charge of **admission** committee
- 6) Presented Institute at **UGC** during **CPE** presentation
- 7) **Grants Brought for the development of various facilities at Institute of Science Nagpur:**
 - Written project for the development of various facilities at **Institute of Science Nagpur** to **Vidharbha Vaidhanik Vikas Mandal**.

Total Grant received = **48 lacs**

- Written project for the development of **Network Resource Center** at **Institute of Science Nagpur** to **U.G.C.**

Total Grant received = **1.5 lacs**

- Written project entitled "**Computer hardware and maintenance**" under Career oriented certificate courses for undergraduate students scheme by **U.G.C.**
- **Total approved grants =7 lac**

ANNEXURE V

Scientific and Technical Achievements:

1) Experience in Instrumentation:

- a) Design and fabricated **TL programmer for thermoluminescence** studies as a part of **MSc** project.
- b) Design and fabricated instruments such as Temperature controller, High voltage regulated power supplies, Stepper motor controllers, Solid state power controllers etc.
- c) Experience in **computer interfacing**.

- Developed **Central Instrumentation Center** at **Institute of Science Nagpur**

2) Experience in vacuum techniques:

- a) Handled vacuum systems.
- b) Design and fabricated vacuum furnace **Temp.range 1000 C at 10⁻⁶ Torr.**
- c) Fabricated high temperature furnace using graphite as heating element.

3) Developed **LiF:Mg,Cu,P** high sensitivity TLD phosphor with simple technology

4) Worked as resource person at **Homi Bhabha Center for Physics Education Mumbai** in **pre olympiad** school held in **97**

5) Guided several **MSc** projects

Computer and I.T Related Experience:

- Passed '**A**' **Level** computer examination conducted by **DOEACC**(certificate awaited)
- Passed **MSCIT** Examination
- Computer networking experience, Done **L.A.N** networking in the **Institute of Science Nagpur**
- Developed Website for **Institute of Science Nagpur**
- Brought Grant for **Network Resource Center** from **U.G.C** at **Institute of Science Nagpur** **Total Grant = 1.5 lacs**

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Administrative Experience:

- 8) Worked as **Head of the Department of Computer Science** **Institute of Science Nagpur 2004-2006**
- 9) Worked as Co-ordinator for the **Mahindra British Telecom Campus selection August 2005**
- 10) Worked as liason officer to **Minister for Higher Education** during **assembly session 2003 at Nagpur**
- 11) Worked as **Scrutiny Officer** at spot valuation center **year 2003**
- 12) Worked in various **NAAC Committees 2002-2003**

- 13) Incharge of **Physics society from 2000-2002**
- 14) Worked in **admission committee for 5 years**
- 15) Coordinated and conducted **educational tour for MSc. Students**
- 16) Worked in various **purchase committees**

Conference Workshop arranged:

Co-Convener of the two day National conference on “ **Recent Trends in Basic and Applied Materials**” 10-11 January 2009 at Institute of Science Nagpur.

Annexure II

- ❖ Presented Paper in International Conference on Luminescence and its Applications B.A.R.C Mumbai **Feb. 2004**.
- ❖ Participated in Refresher course in Physics conducted by Academic staff college Nagpur **Oct-Nov 2004**.
- ❖ B.R.N.S Seminar –Cum – workshop on “ Materials Characterization and Surface Modification in Research and Industry using Ion Accelerators NCCCM BARC Hyderabad **Feb. 2005**
- ❖ Workshop on Nanotechnology and Ion beams March 2005 University of Mumbai.
- ❖ Presented Paper in UGC sponsored conference on Recent trends in Nanoscience **Jan. 2006** Kamla Nehru Mahavidyalaya Nagpur
- ❖ Presented Paper in National Conference on Luminescence and its Application **Feb 2006** Amravati University
- ❖ Presented paper in One day Seminar on Research in Institute of Science Nagpur **Oct. 2006**
- ❖ Participated in Refresher course in Physics conducted by Academic staff college Nagpur **Feb -Mar 2007**.
- ❖ Participated in National level workshop on “ Stasitical Package R “ **December 2008** Institute of Science Nagpur.
- ❖ Presented Paper in DST sponsored symposium Nanotrends **2008 Nagpur**
- ❖ Presented Paper in UGC sponsored conference Recent trends in Basic and applied Materials **RTBAM-2009** Nagpur
- ❖ Presented Paper in National Conference on Luminescence and its Application **Feb 2009** CGCRI Kolkatta .
- ❖ Participated in UGC sponsored conference on Synthesis and characterization of new materials and its applications **March 2009** Kamla Nehru Mahavidyalaya Nagpur
- ❖ Presented Paper in Indo –Russian workshop on NanoTechnology and Laser Induced Plasma **Nov.2009** New Delhi
- ❖ Presented Paper in National Conference on Luminescence and its Application **Feb 2011** Raipur
- ❖ Presented Paper in International Conference on Chemistry for Mankind **Feb 2011** Nagpur
- ❖ Presented Paper in National Conference on Nano Science and Technology **Feb. 2011** Shivaji Science Nagpur
- ❖ Participated in National Seminar on “ Environmental Awareness “ **Dec. 2011** Institute of Science Nagpur
- ❖ Presented Paper in National symposium on ‘Nuclear Energy and Health care’ **Oct. 2011** Kolhapur
- ❖ Presented Paper in International Conference on Luminescence and its Application **Feb 2012** Hyderabad
- ❖ Participated in 30 th IARP National Conference (IARPNC-2012) **March 2012** Manglore University

Annexure I

- 1) Photoluminescence of Cu^+ in alkali Halides
R.R. Patil S.V.Moharil
J.Lum. 63,1995,339
- 2) Cu^+ Emission In LiF
R.R. Patil S.V.Moharil
Solid State Communication,94 No. 7, 1995,573 **I.P=1.535**
- 3) On the role of Copper in Thermoluminescence of LiF:Mg,Cu,P phosphor.
R.R. Patil S.V.Moharil J.Phys.Condense Matter 7 (1995) 9925-9933
- 4) Cu^+ Emission In alkaline earth halides
R.R. Patil S.V.Moharil J.Lum. 65,1996,321
- 5) Cu^+ Luminescence in New Hosts
R.R. Patil S.V.Moharil
Phys.stat.sol.(a)187 No 2 557-562(2001)
- 6) Noval method for obtaining Cu^+ doped phosphors
R.R.Patil S.V. Moharil
Proc. National seminar on Noval Synthesis of Materials 66 (2002)
- 7) A low cost PC-based Thermoluminescence measurements of phosphors
P.B. Dahikar, **R.R.Patil**, S.J.Dhoble and S.V. Moharil
Published In National Conference on luminescence and its Applications 2002 Delhi
- 8) Thermoluminescence in some Cu^+ doped hosts
R.R. Patil S.V.Moharil Pssa 199 No. 9 527 2003
- 9) Photoluminescence of Cu^+ in double sulphates
R.R. Patil S.V.Moharil IJAP vol 44 375 (2006)
- 10) Photoluminescence of Copper in $\text{MX}_{1-x}\text{Y}_x$ type alkali halides(M= Na,K
X=Cl,Br,I; Y is halide ion not X)
R.R. Patil S.V.Moharil
Proc. National Conference on Luminescence and its Applications 2006 Amravati 208-210
- 11) Synthesis and properties of submicron range CaSO_4 : Eu particles
R.R. Patil S.V.Moharil J.Lum 126,571, 2007
- 12) Photoluminescence of CeF_3 submicron particles embedded in PVOH matrix
Ms. Aarti Muley, R.R. Patil, and † S.V.Moharil
Proc. National Conference on Luminescence and its Applications 2007 Coimbtur
P. 336-339, 2007
- 13) Ce^{3+} emission in Hexagonal and Orthorhombic phases of CaSO_4
Ms Aarti Mule **R.R. Patil S.V.Moharil J.Lum. 2008 128,509**

14) Effect of sintering temperature on the structural, electrical and magnetic properties of $\text{Li}_{0.5}\text{Al}_{1.0}\text{Fe}_2\text{O}_4$ ferrite prepared by combustion method

P.R. Arjunwadkar, **R.R. Patil** and Dr. D.K. Kulkarni **J. Alloys and Compounds** **463** (2008) **403-407**

15) Photoluminescence properties of PVOH (poly vinyl alcohol) films doped with various organic luminescences viz **Aluminium quinoline, Carbazole, Anthracene**

Ms. Aarti Mule, **R.R. Patil** and S.V. Moharil, Proc. International Conference on Luminescence and its Applications 2008 N.P.L New Delhi 2008

16) Ce-Tb Energy Transfer In submicron range Na_2SO_4 Particle

Ms. Aarti Muley, **R.R. Patil**, S.V. Moharil and Mohinder Singh Proc. National Conference on Luminescence and its Applications 2009 C G C R I Kolkata Page 195-197

17) Effect of Succinic Acid On The Particle size of Some Aluminates Synthesized By Combustion Synthesis Proceeding Indo-Russian Workshop on Nanotechnology and Laser induced Plasma (IRNANO-2009) 2009 New Delhi Page 95

18) Synthesis and Photoluminescence of Some luminescent Materials in submicron range.

Aarti Mule R.R. Patil S.V. Moharil Proceeding Recent trends in basic and applied materials RTBAM 2009 page 59

19) Synthesis and Cu^+ Luminescence in submicron NaCl particles

Ms Bhakti Patankar and R.R. Patil Proceeding Recent trends in basic and applied materials RTBAM 2009 page 59-61

20) Optically stimulated luminescence in Cu^+ doped Sodium fluoride Rujuta Barve **R.R. Patil** Anuj Soni B.C. Bhatt S.V. Moharil and M.S. Kulkarni Proceeding of 18 th National Symposium on Radiation Physics (ISRP) 2009 Udaipur Page 194-195

21) Cu^+ Doped Materials for OSL Dosimetry

S.U. Gaikwad Rujuta Barve **R.R. Patil** B.C. Bhatt S.V. Moharil and M.S. Kulkarni Proceeding National Conference On Luminescence and its Applications NCLA 2010 Gandhigram Page 124

22) Simple Synthesis of Cu and Ce doped AlPO_4

S.U. Gaikwad Rujuta Barve **R.R. Patil** S.V. Moharil Proceeding National Conference On Novel Materials and their Applications NCNMA 2010 Bhadravati Page 118-119

23) Luminescence in Some Metal acetylacetylenic Complexes

Suwarna Sawade **R.R. Patil** S.V. Moharil Proceeding National Conference On Novel Materials and their Applications NCNMA 2010 Bhadravati Page 45-46

24) Simple Synthesis of Na_2SO_4 Nanophosphor Ms Mayuri Lad, Mrs Anita Katre, R.R. Patil, and S.V. Moharil Proceeding of National Conference on NanoScience and Technology NCNST 2011 Shivaji Science Nagpur Page 194-196

25) On the possibility of using $\text{Li}_3\text{PO}_4:\text{Cu}$ as a OSL Phosphor for online dosimetry using OSL Rujuta Barve **R.R. Patil** M.S. Kulkarni, B.C. Bhatt and S.V. Moharil Proceeding National Symposium on Nuclear Energy and Health care NEHCA-2011 D.Y. Patil University Kolhapur Page 51

- 26) Development Of Doped Fused Quartz For radiation Dosimetry
Rujuta Barve, R.R. Patil, N.P. Gaikwad, B.C. Bhatt, S.V. Moharil, M.S. Kulkarni Rad. Prot. and Environ. Vol. 34 Number 1 (2011) 34-36
- 27) Luminescence in some mixed organic metal chelates
Sawade.S, Patil R.R, and Moharil S.V Proceeding International Conference on chemistry for mankind ICCM 2011 page 184
- 28) OSL in PVA coated Cu doped Sodium Chloride
Sonali Gaikwad Rujuta Barve, R.R.Patil, S.V.Moharil, B.C.Bhatt and M.S.Kulkarni Proceeding National Conference on Luminescence and its applications(NCLA 2011)page 105
- 29) Development Of Doped Fused Quartz For Radiation Dosimetry
Rujuta Barve, R.R. Patil, N.P. Gaikwad, B.C. Bhatt, S.V. Moharil, M.S. Kulkarni Radiation Prot. And Environ. 34 (2011)page 34-36
- 30) Synthesis and Luminescence in some fluoro-silicates for the possible applications in radiation dosimetry **R.R. Patil** Rujuta Barve B.C.Bhatt S.V.Moharil and M.S.Kulkarni Physica B 407(2012) 629-634
- 31) Application of TL and OSL Technique in Forensic Sciences
R.R.Patil, Anju Pakhale and M.S.Kulkarni Proceeding National Conference on Latest Technologies and Their Applications in Forensic Science and Digital Forensics Mumbai 2012
- 32) Optically Stimulated Luminescence and Thermoluminescence in Cu⁺ doped Lithium Metasilicate
Rujuta Barve, R.R. Patil, N.P. Gaikwad, B.C. Bhatt, S.V. Moharil, M.S. Kulkarni Proceeding 30 th IARP conference on Radiological Protection and Safety in Nuclear Reactors and Radiation Installations (2012)Page 109-110
- 33) Synthesis of Blue Emitting Aluminium Tris-Hydroxy Quinolene
Suwarna Sawade R.R.Patil and S.V.Moharil Proceeding of Fourth International Conference on Luminescence and its Applications (ICLA 2012) Page 211
- 34) Structural Effects on the Luminescence Properties of Ce³⁺ in CaSO₄ Anita Patle, M.S.Jog, R.R.Patil and S.V.Moharil Proceeding of Fourth International Conference on Luminescence and its Applications (ICLA 2012) Page 297
- 35) Photoluminescence and Morphology of Bulk and Submicron range Ce₂(SO₄)₃ Aarti Mule R.R.Patil N.S.Ugemuge N.T.Khaty and S.V.Moharil Proceeding of Fourth International Conference on Luminescence and its Applications (ICLA 2012) Page 301
- 36) A new Carbon doped for TL Dosimetry Rujuta Barve R.R.Patil, M.S.Kulkarni B.C.Bhatt and S.V.Moharil, Proceeding of Fourth International Conference on Luminescence and its Applications (ICLA 2012) Page 358
- 37) Blue and infra-red stimulated luminescence in Cu⁺ doped fused quartz for application in radiation dosimetry
Rujuta Barve a, R.R. Patil , N.S. Rawat , N.P. Gaikwad , Ratna Pradeep, B.C. Bhatt b, S.V. Moharil c, M.S. Kulkarni Nuclear Instruments and Methods in Physics Research B 289 (2012) 100–105
- 38) DEVELOPMENT OF DOPED FUSED QUARTZ FOR RADIATION DOSIMETRY

Rujuta Barve¹, R.R. Patil¹, N.P. Gaikwad³, B.C. Bhatt³, S.V. Moharil², M.S. Kulkarni Rad protect and Environ.³⁴, (2011) 34-36

39) EFFECT OF TRIVALENT LANTHANIDES ON THE PHOTOLUMINESCENCE OF ALUMINIUM SA-LICYLATE COMPLEX

SAWDE S.M., PATIL R.R. AND MOHARIL S.V. *International Journal of Knowledge Engineering* Volume 3, Issue 1, 2012, pp.-111-112.

40) Synthesis and luminescence in some fluoro-silicates for the possible applications in OSL dosimetry

R.R. Patil a,n, Ms. Rujuta Barve a, M.S. Kulkarni b, B.C. Bhatt c, S.V. Moharil Physica B 407 (2012) 629–634

41) Optically stimulated luminescence and thermoluminescence in some Cu⁺ doped alkali fluoro-silicates Rujuta Barve , R.R. Patil, N.P. Gaikwad , M.S. Kulkarni , D.R. Mishra b, A. Soni b,B.C. Bhatt c, S.V. Moharil d Radiation Measurements 59 (2013) 73-80

42) Structural and Optical behavior of Nano Ce₂(SO₄)₃, CeF₃ and CePO₄:Tb³⁺ Composites embedded in PVOH Matrix

Aarti Muley^{1,a} , C.P. Joshi^{2,b} , R.R. Patil^{3,c} , S.V. Moharil⁴, *Advanced Materials Research Vol. 748 (2013) pp 117-122*

43) Characterization of Al³⁺ substituted lithium ferrite prepared by chemical method

P.R. Arjunwadkar [†], R.R. Patil Journal of Alloys and Compounds 611 (2014) 273–277

44) Effect of Li₄P₂O₇ and Li₂Cu₂P₆O₁₈ minor phases on the luminescent properties of Cu doped Li₃PO₄

Rujuta A.Barve a,¹, Rajesh R.Patil a,n, Mukund S.Kulkarni b, Bhuwan C.Bhatt c, Sanjeev V.Moharil Journal of Luminescence 156(2014)25–29,

45) Na₂SiF₆:Cu,P: A NEW OSL PHOSPHOR FORTHE RADIATION DOSIMETRIC APPLICATIONS

R. A. Barve^{1,5,*}, R. R. Patil¹, S. V. Moharil, N. P. Gaikwad³, B. C. Bhatt⁴, Ratna Pradeep³, D. R. Mishra³ and M. S. Kulkarni³ Radiation Protection Dosimetry (2014), pp. 1–7

46) Study of 90° and 180° Nanodomains in BaTiO₃ Nanoparticles Using Transmission Electron Microscopy

C. M. DUDHE,^{*} S. B. NAGDEOTE, S. J. KHAMBADKAR, P. R. ARJUNWADKAR, AND **R. PATIL** *Ferroelectrics*, 471:148–155, 2014

11) Optically stimulated luminescence in Cu⁺ doped lithium orthophosphate R.A.Barve a,n,¹, R.R.Patil a, S.V.Moharil b, B.C.Bhatt c, M.S.Kulkarni d PhysicaB 458(2015)117–123

47) Optically stimulated luminescence from CaSO₄:Eu Preliminary Results

M.S. Kulkarni a,^{*}, R.R. Patil b, A. Patle b, N.S. Rawat a, P. Ratna a, B.C. Bhatt c, S.V. Moharil d Radiation Measurements 71 (2014) 95-98

48) Development of Ag doped crystalline SiO₂ for possible applications

in real-time in-vivo OSL dosimetry R.R. Patil a,^{*}, Rujuta Barve b, S.V. Moharil c, M.S. Kulkarni d, B.C. Bhatt e Radiation Measurements 71 (2014) 208-211

49) Luminescence of Cu⁺ in Na₂SO₄

Sonali Gaikwad Ranjit Mistry ,Rujuta Barve, R.R.Patil, S.V.Moharil, IJPAP 51 (2013) 235

50) Synthesis of Aluminium Oxycarbide phases in air R.A. Barve^{1*}, R.R.Patil¹, S.V.Moharil²
Proceeding IUMS -ABS 1487

51) Thermal decomposition of various alkali fluosilicates: A source of SiO₂ in various crystalline phases R.A. Barve^{1*}, R.R.Patil¹, S.V.Moharil² 1138-1141 proceeding of the second international conference on Advances in material processing and characterization APMC 2013

52) A New Al₂O₃: C,Cu,Si OSL phosphor for the On-line dosimetry Applications R.A.Barve^{a*}, R.R.Patil^b, S.V.Moharil^c, M.S.Kulkarni^d, B.C Bhatt^e 17 International conference on solid state dosimetry

52) Optically stimulated luminescence studies in combustion synthesized Al₂O₃:C,Cu,P R.A.Barve a,n, R.R.Patil a, S.V.Moharil b, B.C.Bhatt c, M.S.Kulkarni c
Applied Radiation and Isotopes 104(2015)212–216

53) Phase dependent TL–OSL studies in various phases of chemically synthesized Cu doped crystalline SiO₂ R.A.Barve a,n,1, R.R.Patil a, S.V.Moharil b, B.C.Bhatt c, M.S.Kulkarni c
Journal of Luminescence 171(2016)72–78

54) Thermoluminescence and optically stimulated luminescence in various phases of doped Na₂SO₄
S.U. Gaikwada*, R.R. Patil a, M.S. Kulkarni b, B.C. Bhatt c and S.V. Moharil
Phase Transitions, 2015
<http://dx.doi.org/10.1080/01411594.2015.1065494>

55) Highly sensitive Europium doped SrSO₄ OSL nanophosphor for radiation dosimetry applications
Anita Patle a, R.R. Patil , M.S. Kulkarni , B.C. Bhatt , S.V. Moharil
[Optical Materials 48 \(2015\) 185–189](#)

56) A NEW HIGHLY SENSITIVE LOW-Z LIF-BASED OSL PHOSPHOR FOR RADIATION DOSIMETRY
R. R. Patil^{1,*}, S. U. Gaikwad, Y. K. More, M. S. Kulkarni, B. C. Bhatt and S. V. Moharil
Radiation Protection Dosimetry (2016), Vol. 168, No. 4, pp. 465–470

57) Synthesis and TLOSL studies in Cu activated lithium silicate
R.A. Barve , , R.R. Patil , S.V. Moharil , B.C. Bhatt , M.S. Kulkarni
[Radiation Measurements 77 \(2015\) 18e25](#)

58) Optically stimulated luminescence in doped NaF S.U.Gaikwad a, R.R.Patil a,n, M.S.Kulkarni , B.C.Bhatt c, S.V.Moharil Applied Radiation and Isotopes 111(2016)75–79

59) PHOTOLUMINESCENCE, THERMOLUMINESCENCE AND OPTICALLY STIMULATED LUMINESCENCE STUDIES IN ZINC-BASED FLUOROPEROVSKITES
Milind Jog R R Patil Yogesh More Munish Kumar M S Kulkarni S V Moharil
Radiation Protection Dosimetry, <https://doi.org/10.1093/rpd/ncx205>
Published: 28 September 2017

60) Preliminary results on the photoluminescence and optically stimulated luminescence in Cu and Ag doped ZnB₂X₄ (B = Li, Na, K : X = Cl, Br) compounds
Journal: Luminescence DOI: 10.1002/bio.3377

61)Effect of Si codoping on thermoluminescence properties of undoped and RE (RE:Ce/Tb/Pr/Eu/Yb/Nd) doped YAG phosphor under UV, andg-ray irradiation
Manisha Upasani , B.P. Butey , S.P. Wankhede, C.P. Joshi , R.R. Patil , S.V. Moharil aOptical Materials 73 (2017) 799-804