

Amarnath R. Allu

Council of Scientific and Industrial Research (CSIR)-Central Glass and Ceramic Research Institute (CGCRI),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

Google Scholar : <https://scholar.google.com/citations?user=Wt8d-CsAAAAI&hl=en>

ORCID: <http://orcid.org/0000-0003-0450-0929>

Book Chapter:

1. G. Vijaya Prakash, S. Surendra Babu and **A. A. Reddy** (2011).
Optical Amplifiers from Rare-Earth Co-Doped Glass Waveguides,
Advances in Optical Amplifiers, Paul Urquhart (Ed.), ISBN: 978-953-307-186-2, InTech.
2. Sathravada Balaji, **Amarnath R Allu**, Mukesh Kumar Pandey, Puja Kumari, Subrata Das
Down Converted Photoluminescence of Trivalent Rare-Earth Activated Glasses for Lighting Applications
Luminescent Materials in Display and Biomedical Applications, US, CRC Press, Taylor

Journals:

2022

60. Correlation of structure and ionic-conductivity in phosphate glass using MAS-NMR and impedance spectroscopy: Influence of sodium salt

Indrajeet Mandal, Shweta R. Keshri, Lekhan Lodhi, Krishna K. Dey, Manasi Ghosh, Aswini Ghosh, and Amarnath R. Allu
[PHYSICAL REVIEW MATERIALS 6 \(2022\) 115403](#)

59. $\text{Ln}_2\text{Te}_6\text{O}_{15}$ (Ln = La, Gd, and Eu) "Anti-Glass" Phase-Assisted Lanthanum-Tellurite Transparent Glass-Ceramics: Eu^{3+} Emission and Local Site Symmetry Analysis

Pritha Patra, Ranjith Kumar, K. Jayanthi, Margit Fábíán, Gaurav Gupta, Sultan Khan, Saswata Chakraborty, Subrata Das, Amarnath R. Allu, and Kalyandurg Annapurn
[Inorganic Chemistry 2022 61 \(27\), 10342-10358](#)

58. Elucidating the influence of structure and $\text{Ag}^+\text{-Na}^+$ ion-exchange on crackresistance and ionic conductivity of $\text{Na}_3\text{Al}_{1.8}\text{Si}_{1.65}\text{P}_{1.8}\text{O}_{12}$ glass electrolyte

Shweta R. Keshri, Indrajeet Mandal, Sudheer Ganiseti, S. Kasimuthamaniyan, Rajesh Kumar, Anuraag Gaddam, Ankita Shelke, Thalasseril G. Ajithkumar, Nitya Nand Gosvami, N.M. Anoop Krishnan, Amarnath R. Allu.
[Acta Materialia 227 \(2022\) 117745](#)

57. Role of Sodium-Ion Dynamics and Characteristic Length Scales in Ion Conductivity in Aluminophosphate Glasses Containing Na_2SO_4

Indrajeet Mandal, Saswata Chakraborty, K. Jayanthi, Manasi Ghosh, Krishna K. Dey, K. Annapurna, Jayanta Mukhopadhyay, Abhijit Das Sharma, and Amarnath R. Allu
[Journal of Physical Chemistry C 126, 6, \(2022\) 3276-3288](#)

56. Structure and Conductivity Correlation in NASICON Based $\text{Na}_3\text{Al}_2\text{P}_3\text{O}_{12}$ Glass: Effect of Na_2SO_4

Indrajeet Mandal, Saswata Chakraborty, Manasi Ghosh, Krishna K. Dey, K. Annapurna, and Amarnath R. Allu
[Front. Mater. 8 \(2022\) 802379](#)

55. Interpreting the optical properties of oxide glasses with machine learning and Shapely additive explanations

Mohd Zaki, Vineeth Venugopal, Ravinder Bhattoo, Suresh Bishnoi, Sourabh Kumar Singh, Amarnath R. Allu, Jayadeva, N. M. Anoop Krishnan
[J Am Ceram Soc. 105 \(2022\) 4046-4057](#)

54. Tunable femtosecond nonlinear absorption and optical limiting thresholds of $\text{La}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses by controlling the borate structural units

G. Jagannath, Anuraag Gaddam, S. Venugopal Rao, D.A. Agarkov, G.M. Korableva, Manasi Ghosh, Krishna Kishor Dey, JoséM.F. Ferreira, Amarnath R. Allu
[Scripta Materialia 211 \(2022\) 114530](#)

Amarnath R. Allu

Council of Scientific and Industrial Research (**CSIR**)-Central Glass and Ceramic Research Institute (**CGCRI**),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

53. Factors governing the sinterability, In vitro dissolution, apatite formation and antibacterial properties in B2O3 incorporated S53P4 based glass powders

Sakthi Prasad, Margit Fábíán, Anal Tarafder, Shashi Kant, Prasanta Kumar Sinha, Sucheta Tripathy, Annapurna Kalyandurg, **Amarnath R. Allu**, Kaushik Biswas

[Ceramics International 48 \(2022\) 4512-4525](#)

2021

52. Use of colemanite and borax penta-hydrate in soda lime silicate glass melting - A strategy to reduce energy consumption and improve glass properties

Sultan Khan, **Amarnath R. Allu**, Anuraag Gaddam, Hugo R. Fernandes, Sutanu Dutta, Partha S. Kongar, Anal Tarafder, Jos'e M.F. Ferreira, K. Annapurna

[Ceramics International 48 \(1\) \(2021\) 1181-1190](#)

51. Ionic Conductivity of Na3Al2P3O12 Glass Electrolytes-Role of ChargeCompensators

Shweta R. Keshri, Sudheer Ganiseti, Rajesh Kumar, Anuraag Gaddam, Kavya Illath, Thalasseril G. Ajithkumar, Sathravada Balaji, K. Annapurna, Narendar Nasani, N.M. Anoop Krishnan, and **Amarnath R. Allu**

[Inorganic Chemistry 60 \(2021\) 12893-12905](#)

50. Effect of vanadium oxide on the structure and Li-ion conductivity of lithium silicate glasses.

Anuraag Gaddam, **Amarnath R. Allu**, Sudheer Ganiseti, Hugo R. Fernandes, George E. Stan, Catalin C. Negrila, Atul P. Jamale, François Mear, Lionel Montagne, and José M. F. Ferreira

[Journal of Physical Chemistry C 125 \(30\) \(2021\) 16843-16857](#)

49. Understanding the Sodium-ion Dynamics in NASICON (Na3Al2P3O12) Glass Containing NaF: Scaling of Electrical Conductivity Spectra.

Indrajeet Mandal, Saswata Chakraborty, K. Annapurna, Abhijit Das Sharma, Jayanta Mukhopadhyay, **Amarnath R. Allu**

[J Alloys and Compounds 855 \(2021\) 160952](#)

48. Realizing cool and warm white-LEDs based on color controllable (Sr, Ba)2Al3O6F: Eu2+ phosphors obtained via a microwave-assisted diffusion method

P. Ranjith, S. Sreevalsa, Priitha Patra, Sudipta Som, Ammu Menon, K. Jayanthi, K. Annapurna, N. M. Anoop Krishnan, **Amarnath R. Allu**, Subrata Das.

[Physical Chemistry Chemical Physics 23 \(28\)\(2021\) 15245-15256](#)

47. The effect of nickel doping on the microstructure and conductivity of Ca(Ti,Al)O3-δ for solid oxide fuel cells

Narendar Nasani, G Srinivas Reddy, Vanessa Graca, **Amarnath R. Allu**, Raghu C Reddy, Bharat B Kale

[Journal of American Ceramic Society 104 \(2021\) 5689-5697](#)

46. Role of vanadium oxide on the lithium silicate glass structure and properties

Anuraag Gaddam, **Amarnath R. Allu**, Hugo R Fernandes, George E Stan, Catalin C Negrila, Atul P Jamale, François O Méar, Lionel Montagne, José MF Ferreira

[Journal of American Ceramic Society 104 \(2021\) 2495-2505](#)

2020

45. Energy transfer in Tb3+-doped Ba2Y0.67V2O8 phosphors preferential for near white light emission

S Shisina, P Merin, V Vinduja, S Som, Shahzad Ahmad, KG Nishanth, **Amarnath R. Allu**, Subrata Das

[Materials Letters 273 \(2020\), 127952](#)

44. Influence of NaF on the ionic conductivity of sodium aluminophosphate glass electrolytes

Shweta R. Keshri, Vaijanath V. Bodewad, Aniket A. Jagtap, Narendar Nasani, Sathravada Balaji, K. Annapurna, and **Amarnath R. Allu**

[Materials Letters 271 \(2020\) 127763](#)

43. Elucidating the effect of CaF2 on structure, biocompatibility and antibacterial properties of S53P4 glass

Amarnath R. Allu

Council of Scientific and Industrial Research (CSIR)-Central Glass and Ceramic Research Institute (CGCRI),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

Sakthi Prasad, Sudheer Ganiseti, Anuradha Jana¹, Shashi Kant, P. K. Sinha, Sucheta Tripathy, Kavya Illath, T. G. Ajithkumar, K. Annapurna, **Amarnath R. Allu** and Kaushik Biswas
Journal of Alloys and Compounds 831 (2020) 154704

42. Understanding the role of post-indentation recovery on the hardness of glasses: Case of silica, borate, and borosilicate glasses

S Kasimuthumaniyan, **Amarnath R. Allu**, N. M. Anoop Krishnan, Nitya Nand Gosvami
Journal of Non-Cryst Solids 534 (2020) 119955

41. Cooling Rate Effects on the Structure of 45S5 Bioglass: Evidence of Si-P Avoidance

Pratik Bhaskar, Rajesh Kumar, Yashasvi Maurya, R. Ravinder, **Amarnath R. Allu**, Sumanta Das, Nitya N Gosvami, Youngman E, Randall; Mikkel S Bødker, Nerea Mascaraque, Morten M Smedskjaer, Mathieu Bauchy, N. M. Anoop Krishnan.
Journal of Non-Cryst Solids 534 (2020) 119952

40. Elucidating the structure and optimising the photoluminescence properties of Sr₂Al₃O₆F: Eu³⁺ oxyfluorides for cool white-LEDs

Ranjith P., Sreevalsa S., Jyoti Tyagi, K. Jayanthi, G. Jagannath, Pritha Patra, Shahzad Ahmad, Annapurna K., **Amarnath R. Allu**, Subrata Das
Journal of Alloys and Compounds 826 (2020) 154015

39. Influence of Ho₂O₃ on Optimizing Nanostructured Ln₂Te₆O₁₅anti-glass Phases to Attain Transparent TeO₂-based Glass-ceramics for Mid-IR Photonic Applications

Gaurav Gupta, Sandip Bysakh, Sathravada Balaji, Sultan Khan, Kaushik Biswas, **Amarnath R. Allu**, Kalyandurg Annapurna
Advanced Engineering Materials 22 (2020) 1901357

38. Influence of Gold Nanoparticles on Nonlinear Optical and Photoluminescence Properties of Eu₂O₃ Doped Alkali Borate Glasses

G. Jagannath; Eraiah, B., K. Jayanth, K. Shweta Rani, S. Sudipta, G. Vinitha, A.G. Pramod, K. Nagakrishakanth, G. Devarjulu, B., Sathravada, S. Venugopal Rao, K. Annapurna; D. Subrata, **Amarnath R. Allu**
Physical Chemistry Chemical Physics 22 (2020) 2019-2032

2019

37. Elucidating the formation of Al-NBO bonds, Al-O-Al linkages and clusters in alkaline-earth aluminosilicate glasses based on molecular dynamics simulations

Sudheer Ganiseti, Anuraag Gaddam, Rajesh Kumar, Sathravada Balaji, Glenn C. Mather, Maria J. Pascual, Margit Fabian, Renée Siegel, Jürgen Senker, Vladislav. V. Kharton, Julien Guérolé, N. M. Anoop Krishnan, José M. F. Ferreira, **Amarnath R. Allu**
Physical Chemistry Chemical Physics 21 (2019) 23966-23977

36. Structure and Stability of High CaO- and P₂O₅-Containing Silicate and Borosilicate Bioactive Glasses

Sakthi Prasad, Anuraag Gaddam, Anuradha Jana, Shashi Kant, P. K. Sinha, Sucheta Tripathy, K. Annapurna, Jose M. F. Ferreira, **Amarnath R. Allu**, Kaushik Biswas.
Journal of Physical Chemistry B, 123 (2019) 7558-7569

35. Structural and Femtosecond Third-Order Nonlinear Optical Properties of Sodium Borate Oxide Glasses: Effect of Antimony.

G. Jagannath, B. Eraiah, Anuraag Gaddam, H. Fernandes, D. Brazete, K. Jayanthi, K. N. Krishnakanth, S. V. Rao, José M. F. Ferreira, K. Annapurna, **Amarnath R. Allu**.
Journal of Physical Chemistry C 123 (2019) 5591-5602

2018

34. Structure and crystallization of alkaline-earth aluminosilicate glasses: Prevention of the Alumina Avoidance Principle.

Amarnath R. Allu, Anuraag Gaddam, Sudheer Ganiseti, Sathravada Balaji, Renée Siegel, Glenn C. Mather, Margit Fabian, Maria J. Pascual, Nicoletta Ditaranto, Wolfgang Milius, Jürgen Senker, Dmitry A. Agarkov, Vladislav. V. Kharton, José M. F. Ferreira.
Journal of Physical Chemistry B, 122 (2018) 4737-4747

Amarnath R. Allu

Council of Scientific and Industrial Research (**CSIR**)-Central Glass and Ceramic Research Institute (**CGCRI**),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

33. Structural Elucidation of NASICON ($\text{Na}_3\text{Al}_2\text{P}_3\text{O}_{12}$) based glass electrolyte materials: effective influence of Boron and Gallium.
Amarnath R. Allu, Sathravada Balaji, Kavya Illath, Chaithanya Hareendran, T. G. Ajithkumar, Kaushik Biswas and Kalyandurg Annapurna.

RSC Advances 8 (2018) 14422-14433

32. Electrical and mechanical properties of $\text{Na}_{2.8}\text{Ca}_{0.1}\text{Al}_2\text{Ga}_{0.5}\text{P}_{2.7}\text{O}_{12}$ glass based electrolyte materials: influence of Ag^+ ion-exchange.

Amarnath R. Allu, Sathravada Balaji and Kalyandurg Annapurna.

Journal of Non-Cryst Solids 498 (2018) 323-330

2017

31. Understanding the formation of $\text{CaAl}_2\text{Si}_2\text{O}_8$ in melilite based glass-ceramics: Combined diffraction and spectroscopic studies.

Amarnath R. Allu, Sathravada Balaji, Dilshat U. Tulyaganov, Glenn C. Mather, Fabian Margit, Maria J. Pascual, Renée Siegel, Wolfgang Milius, Jürgen Senker, Dmitrii A. Agarkov, Vladislav V. Kharton, and José M. F. Ferreira.

ACS Omega 2 (2017) 6233-6243.

30. Insights into Er^{3+} - Yb^{3+} energy transfer dynamics upon infrared $\sim 1550\text{nm}$ excitation in a lowphonon fluoro-tellurite glass system

Sathravada Balaji, Debarati Ghosh, Kaushik Biswas, **Amarnath R. Allu**, Gaurav Gupta, Kalyandurg Annapurna.

Journal of Luminescence 187 (2017) 441-448

29. Bandwidth enhancement of MIR emission in $\text{Yb}^{3+}/\text{Er}^{3+}/\text{Dy}^{3+}$ triply doped fluoro-tellurite glass.

S. Balaji, **Amarnath R Allu**, Kaushik Biswas, Gaurav Gupta, Debarati Ghosh and Kalyandurg Annapurna.

Laser Physics Letters, 14 (2017) 035804.

28. Dependence of Eu^{3+} photoluminescence properties on structural transformations in diopside-based glass-ceramics.

Amarnath R. Allu, Subrata Das, S. Som, Harsha Vardhan R. Maraka, Sathravada Balaji, Luis F. Santos, Inka Manek-Hönninger, Véronique Jubera, José M.F. Ferreira.

Journal of Alloys and Compounds, 699 (2017) 856-865.

2015

27. Development of bilayer glass-ceramic sealants via optimising the chemical composition of glasses – Review.

A. A. Reddy, D. U. Tulyaganov, V. V. Kharton, J. M. F. Ferreira.

Journal of Solid State Electrochemistry 19 (2015) 2899.

26. Influence of strontium oxide on structural transformations in diopside-based glass-ceramics assessed by diverse structural tools.

A. A. Reddy, D. U. Tulyaganov, G. C. Mather, S. Rodríguez-López, S. Das, M. J. Pascual, F. Muñoz, R. Siegel, J. Senker, J. M. F. Ferreira.

The Journal of Physical Chemistry C 119 (2015) 11482-11492.

25. Synthesis and in vitro bioactivity assessment of injectable bioglass-organic pasts for bone tissue repair.

D. U. Tulyaganova, **A. A. Reddy**, R. Siegel, E. Ionescu, R. Riedel, J.M.F. Ferreira.

Ceramics International 41 (2015) 9373-9382.

2014

24. Structure, biodegradation behavior and cytotoxicity of alkali-containing alkaline-earth phosphosilicate glasses.

Ishu Kansal, **A. A. Reddy**, F. Muñoz, Hae-Won Kim, Dilshat U. Tulyaganov, Seong-Jun Choi, José M.F. Ferreira.

Mater. Sci. Eng. C 44 (2014) 159-165

23. Bi-layer glass-ceramic sealant for solid oxide fuel cells.

A. A. Reddy, N. Eghtesadi, D. U. Tulyaganov, M. J. Pascual, L. F. Santos, S. Rajesh, F. M.B. Marques, and J. M. F. Ferreira.

Journal of European Ceramic Society 34 (2014) 1449-1455

(Recognized as a key Scientific Article contributing to the excellence in Energy research by Renewable Energy Global Innovations)

Amarnath R. Allu

Council of Scientific and Industrial Research ([CSIR](#))-Central Glass and Ceramic Research Institute ([CGCRI](#)),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

22. Thermal and mechanical stability of lanthanide-containing glass-ceramic sealants for solid oxide fuel cells.

[A. A. Reddy](#), A. Goel, D. U. Tulyaganov, M. Sardo, L. Mafra, M. J. Pascual, V. V. Kharton, E. V. Tsipis, V. A. Kolotygin, and J. M.F. Ferreira.
J. Mater. Chem. A 2 (2014) 1834-1846

21. Effect of strontium to calcium ratio on the structure, crystallization behavior and functional properties of diopside based glasses.

[A. A. Reddy](#), Dilshat U. Tulyaganov, Maria J. Pascual, Vladislav V. Kharton, Sergey I. Bredikhin, Vladislav A. Kolotygin, José M.F. Ferreira.
Inter. J. Hydrogen Energy 39 (2014) 3552-3563

20. Tunable visible upconversion emission in Er^{3+}/Yb^{3+} -codoped $KCaBO_3$ phosphors by introducing Ho^{3+} ions.

Subrata Das, [A. A. Reddy](#), S. Surendra Babu, G. Vijaya Prakash.
Materials letters 120 (2014) 232-235

2013

19. SrO-Containing Diopside Glass-Ceramic Sealants for Solid Oxide Fuel Cells: Mechanical Reliability and Thermal Shock Resistance.

[A. A. Reddy](#), D. U. Tulyaganov, M. J. Pascual, V. V. Kharton, E. V. Tsipis, V. A. Kolotygin, J. M.F. Ferreira.
Fuel Cells 13 (2013) 689- 694

18. Aluminosilicate-based sealants for SOFCs and other electrochemical applications - A brief review.

Dilshat U. Tulyaganov, [A.A. Reddy](#), Vladislav V. Kharton, José M.F. Ferreira.
Journal of Power Sources 242 (2013) 486-502

17. Melilite glass-ceramic sealants for solid oxide fuel cells: effects of ZrO_2 additions assessed by microscopy, diffraction and solidstate NMR.

[A. A. Reddy](#), Dilshat U. Tulyaganov, Ashutosh Goel, Mariana Sardo, Paul V. Wiper, Maria J. Pascual, Vladislav V. Kharton, Ekaterina V. Tsipis, Vladislav A. Kolotygin, Luís Mafra, José M.F. Ferreira.
Journal of Materials Chemistry A 1 (2013) 6471-6480

16. $KCa_4(BO_3)_3:Ln^{3+}$ ($Ln=Dy, Eu, Tb$) phosphors for near UV excited white-light-emitting diodes.

[A. A. Reddy](#), Subrata Das, Ashutosh Goel, Rupam Sen, Renée Siegel, Luís Mafra, G Vijaya Prakash, José M.F. Ferreira.
AIP Advances 3 (2013) 022126

15. Sintering and devitrification of glass-powder compacts in the akermanite - gehlenite system.

[A. A. Reddy](#), D. U. Tulyaganov, A. Goel, S. Kapoor, M. J. Pascual, J. M.F. Ferreira.
J. Mater. Science 48 (2013) 4128-4136

14. Study of calcium-magnesium-aluminum-silicate (CMAS) glass and glass-ceramic sealant for solid oxide fuel cells.

[A. A. Reddy](#), A. Goel, D. U. Tulyaganov, S. Kapoor, K. Pradeesh, M. J. Pascual, and J. M.F. Ferreira.
Journal of Power Sources 231 (2013) 203-212.

13. Diopside-Ba disilicate glass-ceramic sealants for SOFCs: enhanced adhesion and thermal stability by Sr for Ca substitution.

[A. A. Reddy](#), Dilshat U. Tulyaganov, Maria J. Pascual, Vladislav V. Kharton, Ekaterina V. Tsipis, Vladislav A. Kolotygin, José M.F. Ferreira.
International Journal of Hydrogen Energy 38 (2013) 3073-3086

2012

12. Study of melilite based glasses and glass-ceramics nucleated by Bi_2O_3 for functional applications.

[A. A. Reddy](#), D. U. Tulyaganov, S. Kapoor, A. Goel, M. J. Pascual, V. V. Kharton, and J. M. F. Ferreira.
RSC Advances 2 (2012) 10955-10967

Amarnath R. Allu

Council of Scientific and Industrial Research (**CSIR**)-Central Glass and Ceramic Research Institute (**CGCRI**),
196, Raja S. C. Mullick Road, Kolkata-700 032, India. e-Mail: aareddy@cgcri.res.in Mobile: +91 9831894611

11. Er³⁺-doped phosphate glasses with improved gain characteristics for broadband optical amplifiers.

A. A. Reddy, S. SurendraBabu, G. VijayaPrakash.
Optics Communications 285 (2012) 5364-5367

10. Influence of the annealing temperatures on the photoluminescence of KCaBO₃:Eu³⁺ phosphor.

A. A. Reddy, S. Das, S. Ahmad, S. S. Babu, J. M. F. Ferreira and G. V. Prakash.
RSC Advances 2 (2012) 8768-8776

9. Diopside - Mg orthosilicate and Diopside - Ba disilicate glass-ceramics for sealing applications in SOFC: sintering and chemical interactions studies.

A. A. Reddy, D. U. Tulyaganov, A. Goel, M. J. Pascual, V. V. Kharton, E. V. Tsipis, J. M.F. Ferreira.
Inter. J. Hydrogen Energy 37 (2012) 12528-12539

8. Near white light emission from K⁺ ion compensated CaSO₄:Dy³⁺, Eu³⁺ phosphors.

Subrata Das, **A. A. Reddy** and G. Vijaya Prakash.
Ceramic International 38 (2012) 5769-5773

7. Sintering behavior of lanthanide-containing glass-ceramic sealants for solid oxide fuel cells.

A. Goel, **A. A. Reddy**, M. J. Pascual, L. Gremillard, A. Malchere, J. M.F. Ferreira.
J. Mater. Chem. 22 (2012) 10042-10054

2011

6. Optical properties of highly Er³⁺-doped sodium-aluminium-phosphate glasses for broadband 1.5μm emission.

A. A. Reddy, S. S. Babu, K. Pradeesh, C.J. Otton and G. V. Prakash.
J. Alloys and Comp. 509 (2011) 4047-4052

5. Optical properties of Dy³⁺ -doped sodium-aluminum-phosphate glasses.

A. A. Reddy, K. Pradeesh, M. Chandra Sekhar, S. Surendra Babu and G. Vijaya Prakash.
J. Mater. Sci. 46 (2011) 2018-2023

4. Strong green upconversion emission from Er³⁺-Yb³⁺ Co-doped KCaBO₃ phosphor.

Subrata Das, **A. A. Reddy**, G. Vijaya Prakash. *Chemical Physics Letters* 504 (2011) 206-210

3. Synthesis and optical characterization of strong red light emitting KLaF₄: Eu³⁺ nanophosphors.

Subrata Das, **A. A. Reddy**, Shahzad Ahmad, R. Nagarajan and G. Vijaya Prakash.
Chemical Physics Letters 508 (2011) 117-120

2. Tunable white light emission from Dy³⁺-Eu³⁺ Co-doped KCaBO₃ phosphor.

Subrata Das, **A. A. Reddy**, S. Surendra Babu and G. Vijaya Prakash.
Journal of Material Science 46 (2011) 7770-7775

2010

1. KLaF₄:Er an efficient upconversion phosphor.

N. Tyagi, **A. A. Reddy**, R. Nagarajan.
Opt. Mater. 33 (2010) 42-47