

PAPERS PUBLISHED IN REFEREED INTERNATIONAL JOURNALS	
Sl. No.	Paper Details
1)	Advancing neurological disorder detection: ZnFe ₂ O ₄ :Co ²⁺ nanoparticles for highly sensitive electrochemical dopamine sensing and latent fingerprint detection, Nadar, N.R., Deepak, J., Sharma, S.C., Krushna, B.R.R., Nagabhushana, H., Sahu, S., Sridhar, C., Akkara, P.J., Manjunatha, K., Wu, S.Y., <i>Ceramics International</i> , (2025), 51 (11), pp. 14511-14530, DOI: 10.1016/j.ceramint.2025.01.289, (IF = 5.6), (Citations = 1).
2)	A novel Tb doped Y ₂ O ₃ electrochemical sensing platform for selective and sensitive dopamine quantification, Nadar, N.R., Deepak, J., Ray, S., Sharma, S.C., Krushna, B.R.R., Pruthviraj, I.S., Nagabhushana, H., <i>Inorganic Chemistry Communications</i> , (2025), 180, art. no. 115062, DOI: 10.1016/j.inoche.2025.115062, (IF = 5.4), (Citations = 0).
3)	Thermoluminescent and photoluminescent properties of CaGd ₂ ZnO ₅ :Er ³⁺ phosphors: Insights into dosimetry and w-LED fabrication, Pruthviraj, I.S., Krushna, B.R.R., Karthikeyan, K., Sharma, S.C., Mohapatra, S.S., Manjunatha, K., Wu, S.Y., Narasimhamurthy, K.N., Komahal, F.F., Nagabhushana, H., <i>Journal of Luminescence</i> , (2025), 284, art. no. 121295, DOI: 10.1016/j.jlumin.2025.121295, (IF = 3.6), (Citations = 2).
4)	High purity red emitting CaLaGaO ₄ :Eu ³⁺ nanophosphors: Applications in w-LEDs and forensic fingerprint detection with YOLOv8x framework, Mahanthesh, K.Y., Krushna, B.R.R., Mamatha, G.R., Sharma, S.C., Mishra, S., Akila, K., Karthikeyan, K., Narasimhamurthy, K.N., Manjunatha, K., Wu, S.Y., Lyu, B.-L., Ramakrishna, G., Nagabhushana, H., <i>Ceramics International</i> , (2025), DOI: 10.1016/j.ceramint.2025.07.061, (IF = 5.6), (Citations = 0).
5)	Orange red emitting Sm ³⁺ doped V ₂ O ₅ nanoparticles: Structural insights, photoluminescence, ridgeoscopic analysis through YOLOv8x deep learning model, Navya, N., Krushna, B.R.R., Sharma, S.C., Sumathi, S., Nagarajan, K., Manjunatha, K., Wu, S.Y., Shivakumar, V., Devaraja, S., Nagabhushana, H., <i>Optical Materials</i> , (2025), 165, art. no. 117089, DOI: 10.1016/j.optmat.2025.117089, (IF = 3.8), (Citations = 1).
6)	Synergistic enhancement of photoluminescence and advanced deep learning model through YOLOv8x in combined effects of carbon dots and Sr ₉ Al ₆ O ₁₈ :Sm ³⁺ phosphors, Krushna, B.R.R., Pruthviraj, I.S., Sharma, S.C., Vijayanand, S., Krithika, C., Mohapatra, L., Pappa Ammal, R., Kumar, S., Manjunatha, K., Yun Wu, S., Lung Yu, S., Nagabhushana, H., <i>Optical Materials</i> , (2025), 159, art. no. 116455, DOI: 10.1016/j.optmat.2024.116455, (IF = 3.8), (Citations = 11).
7)	High performance Y ₄ Al ₂ O ₉ :Eu ³⁺ phosphors: Optical, thermal, and functional applications in w-LEDs, anti-counterfeiting and advanced forensics, Arunakumar, R., Gagana, M., Radha Krushna, B.R., Pruthviraj, I.S., Ramakrishna, G., Sharma, S.C., Choudhury, S.P.N., Shanma, E., Kumari, B.N., Manjunatha, K., Wu, S.Y., Das, B.K., Nagabhushana, H., <i>Journal of Luminescence</i> , (2025), 281, art. no. 121166, DOI: 10.1016/j.jlumin.2025.121166, (IF = 3.6), (Citations = 8).

8)	Influence of carbon dots integrated in Pr ³⁺ doped gahnite nanophosphor for thermal sensing, data fortification and fingerprint visualization analysis through YOLOv8x deep learning embedded model, Sreedhara, R., Krushna, B.R.R., Mamatha, G.R., Sharma, S.C., Padmavathi, S., Kamila, S.K., George, A., Krithika, C., Sudarmani, R., Manjunatha, K., Wu, S.Y., Nagabhushana, H., Materials Research Bulletin, (2024), 180, art. no. 113067, DOI: 10.1016/j.materresbull.2024.113067, (IF = 5.7), (Citations = 19).
9)	Leveraging photosensitive and thermally stable luminescent Ba ₂ ZnWO ₆ :Eu ³⁺ , M ⁺ (M ⁺ = Na, K, and Li) nanophosphor for targeted non-invasive and stain-free visualization of cracked tooth syndrome, Arjun, A., Premkumar, H.B., Jairam, L.S., Sharma, S.C., Nagabhushana, H., Darshan, G.P., Materials Today Nano, (2024), 28, art. no. 100531, DOI: 10.1016/j.mtnano.2024.100531, (IF = 8.2), (Citations = 3).
10)	Convert agricultural waste into biocompatible carbon dots: New insights into Pb ²⁺ -ion sensing, seed germination and secure information systems, Ananda, B., Krushna, B.R.R., Gagana, M., Sharma, S.C., Mohapatra, S.S., Ponnazhagan, K., Inbanathan, J., Manjunatha, K., Wu, S.Y., Nagabhushana, H., Journal of Environmental Chemical Engineering, (2025), 13 (3), art. no. 116949, DOI: 10.1016/j.jece.2025.116949, (IF = 7.2), (Citations = 0).
11)	Promising applications for environmentally friendly ZnO: Co ²⁺ nanoparticles for UV shielding, oxidative stress, thrombosis, antibacterial activity and accurate fingerprint detection, Krushna, B.R.R., Pruthviraj, I.S., Sharma, S.C., Jyothi, K.R., Krithika, C., Mohapatra, L., Nidhi, M.K.J., Reddy, B.U., George, A., Devaraja, S., Manjunatha, K., Wu, S.Y., Chiu, H.-H., Nagabhushana, H., Journal of Molecular Structure, (2025), 1341, art. no. 142598, DOI: 10.1016/j.molstruc.2025.142598, (IF = 4.7), (Citations = 1).
12)	Exploring the multifaceted potential of Ga ³⁺ doped ZnO nanoparticles in biomedical and forensic applications, Pruthviraj, I.S., Krushna, B.R.R., Sharma, S.C., Panda, M., Ganesan, L., Manjunatha, K., Wu, S.Y., Manjula, M.V., Shivakumar, V., Devaraja, S., Nagabhushana, H., Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2025), 719, art. no. 137058, DOI: 10.1016/j.colsurfa.2025.137058, (IF = 5.4), (Citations = 2).
13)	Corrigendum to “nature-inspired materials as sustainable electrodes for energy storage devices: Recent trends and future aspects” [journal of energy storage (2025) volume 106, 15 January 2025, 114779] (Journal of Energy Storage (2025) 106, (S2352152X24043652), (10.1016/j.est.2024.114779)), Nadar, N.R., Akkinepally, B., Harisha, B.S., Ibrahim, E.H., Rao, H.J., Dash, T., Sharma, S.C., Hussain, I., Shim, J., Journal of Energy Storage, (2025), 106, art. no. 114890, DOI: 10.1016/j.est.2024.114890, (IF = TBD), (Citations = 0).
14)	Biodegradable chitosan-based carbon dot-infused intelligent films with UV-blocking and shape memory properties for shrimp preservation and milk freshness monitoring, Ananda, B., Radha Krushna, B.R., Gagana, M., Sharma, S.C., Ray, S., Subha, V.J., Kumari, B.N., Manjunatha, K., Wu, S.Y., Nagabhushana, H., Journal of Industrial and Engineering Chemistry, (2025), DOI: 10.1016/j.jiec.2025.04.005, (IF = 6.0), (Citations = 1).
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16)	Development of highly thermal-stable blue emitting Y ₄ Al ₂ O ₉ :Bi ³⁺ phosphors for w-LEDs, fingerprint and data security applications, Arunakumar, R., Radha Krushna, B.R., Ramakrishna, G., Mamatha, G.R., Sharma, S.C., Kumar, S., Suvarna, P., Mohapatra, L., George, A., Sudarmani, R., Nagabhushana, H., Materials Science and Engineering: B, (2025), 312, art. no. 117833, DOI: 10.1016/j.mseb.2024.117833, (IF = 4.6), (Citations = 14).

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19)	Sustainable synthesis of PVA@ZnO:Ga ³⁺ nanocomposite films for UV shielding, food preservation, shape memory and anti-counterfeiting applications, Pruthviraj, I.S., Radha Krushna, B.R., Sharma, S.C., Shanmuganathan, S., Ray, S., Krithika, C., Vijayanand, S., Ponnazhagan, K., Manjunatha, K., Wu, S.Y., Ramakrishna, G., Nagabhushana, H., Inorganic Chemistry Communications, (2025), 171, art. no. 113533, DOI: 10.1016/j.inoche.2024.113533, (IF = 5.4), (Citations = 5).
20)	Green-synthesized Sm ³⁺ activated LiAlSiO ₄ nanoparticles: A dual-functional platform for latent fingerprint imaging and electrochemical studies, Prathibha, B., Chakradhar, S.P., Krushna, B.R.R., Sharma, S.C., Meyyammai, C.T., Protyusha, G.B., Vickneswaran, V., Manjunatha, K., Wu, S.Y., Yu, Y.T., Arunakumar, R., Ramakrishna, G., Galivarapu, J.K., Al-Asbahi, B.A., Nagabhushana, H., Colloids and Surfaces A: Physicochemical and Engineering Aspects, (2025), 726, art. no. 137936, DOI: 10.1016/j.colsurfa.2025.137936, (IF = 5.4), (Citations = 0).
21)	High efficiency Ba ₂ MgGe ₂ O ₇ :Mn ⁴⁺ red phosphors for phytochrome responsive LED applications and advanced latent fingerprint visualization with quantitative contrast analysis, Pruthviraj, I.S., Krushna, B.R.R., Sharma, S.C., Protyusha, G.B., sahu, S., Prabakaran, T., Manjunatha, K., Wu, S.Y., George, A., Sangaraju, S., Shkir, M., Nagabhushana, H., Optical Materials, (2025), 167, art. no. 117340, DOI: 10.1016/j.optmat.2025.117340, (IF = 3.8), (Citations = 0).
22)	Multiple stimuli-responsive double perovskite structured Ca ₂ MgWO ₆ : x % Eu ³⁺ (x = 1–11 mol) red-emitting luminescent systems to combat counterfeiting, Arjun, A., Premkumar, H.B., Sharma, S.C., Nagabhushana, H., Balse, L., Bordin, M., Ibrahim, K.B., Darshan, G.P., Inorganic Chemistry Communications, (2024), 170, art. no. 113460, DOI: 10.1016/j.inoche.2024.113460, (IF = 5.4), (Citations = 4).
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25)	Novel scandium-doped cobalt chromate: Dopamine sensing and superior supercapacitor performance, Nadar, N.R., Deepak, J., Sharma, S.C., Radha Krushna, B.R., Sridhar, C., Ray, S., Vini, R., Nagabhushana, H., Sowjanya, R., B, P., Materials Science and Engineering: B, (2025), 318, art. no. 118306, DOI: 10.1016/j.mseb.2025.118306, (IF = 4.6), (Citations = 0).
26)	Novel red-emitting CDs@LaCaAl ₃ O ₇ :Eu ³⁺ nanocomposites: A sustainable breakthrough for optical thermometry, indoor plant growth and intelligent security labels, Chakradhar, S.P., Krushna, B.R.R., Sharma, S.C., Tripathi, S., Indhu, C., Jaiganesh, I., Manjunatha, K., Wu, S.Y., Das, B.K., Nagabhushana, H., Materials Chemistry and Physics, (2025), 335, art. no. 130540, DOI: 10.1016/j.matchemphys.2025.130540, (IF = 4.1), (Citations = 7).

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30)	Multifunctional CeO ₂ :Fe ³⁺ electrodes: Superior uric acid sensing and high-efficiency supercapacitor application, Nadar, N.R., Deepak, J., Sharma, S.C., Radha Krushna, B.R., Pruthviraj, I.S., Shivaraj Maidur, R., Sridhar, C., Ray, S., Sudarmani, R., Ravi Kumar, R., Nagabhushana, H., Inorganic Chemistry Communications, (2024), 170, art. no. 113449, DOI: 10.1016/j.inoche.2024.113449, (IF = 5.4), (Citations = 1).
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35)	Enhanced electrochemical and sensing performance of dysprosium-doped CdSiO ₃ : a promising material for supercapacitor and biosensor applications, Nadar, N.R., Deepak, J., Sharma, S.C., Radha Krushna, B.R., AkilaAkila, K., Anitha, R., Mishra, S., Sargunam, B., Pruthviraj, I.S., Nagabhushana, H., Jain, K.S., Materials Science and Engineering: B, (2025), 321, art. no. 118533, DOI: 10.1016/j.mseb.2025.118533, (IF = 4.6), (Citations = 0).
36)	Coupling of carbon dots in Eu ³⁺ doped dicalcium silicate, derived from marine and agro-waste, offers a luminescent armor for counterfeiting, improving thermal sensing and advancing forensic explorations, Chakradhar, S.P., Krushna, B.R.R., Sharma, S.C., Mohapatra, S.S., Krithika, C., George, A., pasha, S., Manjunatha, K., Wu, S.Y., Vanitha, V., Nagabhushana, H., Materials Research Bulletin, (2025), 181, art. no. 113102, DOI: 10.1016/j.materresbull.2024.113102, (IF = 5.7), (Citations = 15).
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39)	Red-emitting LiAlSiO ₄ :Eu ³⁺ nanophosphors: A versatile material for lighting, forensic and anti-counterfeiting technologies, Megharaj, T.N., Radha Krushna, B.R., Mamatha, G.R., Bommalingaiah, B., Sharma, S.C., Ray, S., Subha, V.J., George, A., Manjunatha, K., Wu, S.Y., Arunakumar, R., Ramakrishna, G., Nagabhushana, H., Journal of Luminescence, (2025), 282, art. no. 121240, DOI: 10.1016/j.jlumin.2025.121240, (IF = 3.6), (Citations = 4).
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44)	Broadband blue-emitting CaLaGaO ₄ :Bi ³⁺ phosphors with persistent afterglow for High-CRI w-LEDs and advanced anti-counterfeiting applications, Navya, N., Krushna, B.R.R., Sharma, S.C., Mohapatra, D., Begum, S., Protyusha, G.B., Manjunatha, K., Wu, S.Y., Arunakumar, R., Nagabhushana, H., Ceramics International, (2025), DOI: 10.1016/j.ceramint.2025.06.191, (IF = 5.6), (Citations = 0).
45)	Synergistic Ce ³⁺ , Tb ³⁺ activated LaCaAl ₃ O ₇ phosphor: Bridging forensic science with advanced w-LEDs applications, Pruthviraj, I.S., Krushna, B.R.R., Sharma, S.C., Premkumar, H.B., Manjunatha, K., Wu, S.Y., Mishra, S., Ganesan, L., Kumar, D.G., George, A., Kumar, J.B.P., Nagabhushana, H., Journal of Luminescence, (2025), 280, art. no. 121080, DOI: 10.1016/j.jlumin.2025.121080, (IF = 3.6), (Citations = 17).
46)	A facile approach towards large-scale synthesis of TiO ₂ nanoparticles derived from egg shell waste with enhanced UV shielding, nano priming and fingerprint real time object detection through YOLOv8x, Navya, N., Krushna, B.R.R., Sharma, S.C., Kumar, V.R.H., Sahoo, S., Sudarmani, R., Babu, K.S., Manjunatha, K., Wu, S.Y., Chiu, H.-H., Vinayak, G.K., Nagabhushana, H., Inorganic Chemistry Communications, (2024), 170, art. no. 113422, DOI: 10.1016/j.inoche.2024.113422, (IF = 5.4), (Citations = 10).
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