

# Department of Physics and Nanotechnology, SRMIST

## List of SCI/SCOPUS Research Publications - 2024 (Jan - Oct)

| S.NO | AUTHORS                                                                                                         | TITLE OF PUBLICATION                                                                                                                           | YEAR | SOURCE TITLE                        | IF  | DOI                                                                                             |
|------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------|-----|-------------------------------------------------------------------------------------------------|
| 1    | Karthik Dilly Rajan, Sneha Mondal, Vattikondala Ganesh, Maheswaran Rathinam                                     | Cobalt (II/III) Bismuth Oxide Nanosheets as Photocatalyst for Peroxide-assisted Tetracycline Degradation                                       | 2024 | The Journal of Physical Chemistry C | 3.7 | <a href="https://doi.org/10.1021/acs.jpcc.3c06755">https://doi.org/10.1021/acs.jpcc.3c06755</a> |
| 2    | Santhosh Durairaj, Nasir Ali, Won Jong Yoo, S. Chandramohan, Changgu Lee                                        | Parafilm Enabled Rapid and Scalable Delamination/Integration of Graphene for High-Performance Capacitive Touch Sensor                          | 2024 | Advanced Engineering Materials      | 3.6 | <a href="https://doi.org/10.1002/adem.202301810">https://doi.org/10.1002/adem.202301810</a>     |
| 3    | T. Susikumar, G. John, Navaneethan Mani, Mihir Ranjan Sahoo, Avijeet Ray, Nirpendra Singh and P. Justin Jesuraj | Empowering the Nickel Iron Oxyhydroxide through a Heterostructure Cocatalyst for Superior Alkaline and Saline Water Reduction                  | 2024 | ACS Applied Energy Materials        | 6.4 | <a href="https://doi.org/10.1021/acsaem.3c02406">https://doi.org/10.1021/acsaem.3c02406</a>     |
| 4    | Sruthy Subash, Kumaresan Lakshmanan, Kumaran VEDIAPPAN, K Kamala Bharathi                                       | High Li-ion diffusion coefficient in LiMn <sub>1.5</sub> Ni <sub>0.5</sub> O <sub>4</sub> thin films for all-solid Li-ion battery applications | 2024 | Applied Physics Letters             | 4   | <a href="https://doi.org/10.1063/5.0178190">https://doi.org/10.1063/5.0178190</a>               |
| 5    | Akshay Vishwanathan Vidyanagar and S. Venkataprasad Bhat                                                        | Solution-Processed Sb <sub>2</sub> S <sub>3</sub> -Based Heterojunction for Self-Powered Broad Band Weak Light Detection                       | 2024 | ACS Appl. Mater. Interfaces         | 9.5 | <a href="https://doi.org/10.1021/acsami.3c13051">https://doi.org/10.1021/acsami.3c13051</a>     |

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| 6  | Rekha Pachaiappan, Lorena Cornejo-Ponce, Atul A. Sagade, Mohan Mani, Vincent Aroulmoji, Vincent Femilaa Rajan, Kovendhan Manavalan                                    | A concise review of recent biohydrogen production technologies                                                                                      | 2024 | Sustainable Energy Technologies and Assessments                  | 8      | <a href="https://doi.org/10.1016/j.seta.2024.103606">https://doi.org/10.1016/j.seta.2024.103606</a>         |
| 7  | Thirumuruganantham Sivakumar, Arivazhagan Logeswari, Munusamy William Carry, M. R. Kannan, Thangaraj Vijayakumar, and Jeyaperumal Kalyana Sundar                      | Crystal Growth, Physicochemical Investigation, and Raman Spectroscopy: Exploration of Intramolecular Charge Transfer in NLO Chromophore DAST        | 2024 | Crystal Growth & Design                                          | 4.01   | <a href="https://doi.org/10.1021/acs.cgd.3c01132">https://doi.org/10.1021/acs.cgd.3c01132</a>               |
| 8  | I. Silber, S. Mathimalar, I. Mange, A. K. Nayak, O. Green, N. Avraham, H. Beidenkopf, I. Feldman, A. Kanigel, A. Klein, M. Goldstein, A. Banerjee, E. Sela & Y. Dagan | Two-component nematic superconductivity in 4Hb-TaS2                                                                                                 | 2024 | Nature Communications                                            | 17.694 | <a href="https://doi.org/10.1038/s41467-024-45169-3">https://doi.org/10.1038/s41467-024-45169-3</a>         |
| 9  | S Baishal, J Prakash, MS Marvaan, Madasamy Sundar, Balashanmugan Pannerselvam, G Devanand Venkatasubbu                                                                | Naringin and graphene oxide incorporated Moringa oleifera gum/poly (vinyl) alcohol patch for enhanced wound healing                                 | 2024 | International Journal of Biological Macromolecules               | 8.2    | <a href="https://doi.org/10.1016/j.ijbiomac.2024.129198">https://doi.org/10.1016/j.ijbiomac.2024.129198</a> |
| 10 | D. Prema, P. Balashanmugam, G. Devanand Venkatasubbu                                                                                                                  | Sustained Release of Human Placental Extract From Chitosan Patch Incorporated With GO/Zn(Cu)O Nanocomposite For Enhanced Healing of Diabetic Wounds | 2024 | Colloids and Surfaces A: Physicochemical and Engineering Aspects | 5.2    | <a href="https://doi.org/10.1016/j.colsurfa.2024.133191">https://doi.org/10.1016/j.colsurfa.2024.133191</a> |
| 11 | R. Gagana Rao, Ajay S. Kumar, D. Prema, J. Prakash, P. Balashanmugam, G. Devanand Venkatasubbu                                                                        | GO/CaCO3/SiO2 nanocomposite incorporated Carrageenan/Chitosan injectable hydrogel for enhanced hemostasis                                           | 2024 | Inorganic Chemistry Communications                               | 3.8    | <a href="https://doi.org/10.1016/j.inoche.2024.112024">https://doi.org/10.1016/j.inoche.2024.112024</a>     |

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| 12 | Samantha Raj Sah, and G. Devanand Venkatasubbu                                                                                                       | Respiratory Chain Inhibition and Lipid Peroxidation by Carbon Nanosphere Against Pathogens in The Management of Diabetic Foot Infection                                        | 2024 | Colloids and Surfaces A: Physicochemical and Engineering Aspects | 5.2   | <a href="https://doi.org/10.1016/j.colsurfa.2024.133245">https://doi.org/10.1016/j.colsurfa.2024.133245</a>       |
| 13 | Karunakaran M., Desigan Ravi, Payel Bandyopadhyay, Rudra Banerjee                                                                                    | Controlling the electronic and magnetic properties of Mn <sub>2</sub> CoAl by d metal doping: A DFT study                                                                      | 2024 | Journal of Physics and Chemistry of Solids                       | 4     | <a href="https://doi.org/10.1016/j.jpcs.2024.111914">https://doi.org/10.1016/j.jpcs.2024.111914</a>               |
| 14 | Tharani Selvam, Durgalakshmi Dhinasekaran, Balakumar Subramanian, and Ajay Rakkesh Rajendran*                                                        | Enhancing Interplanar Spacing in V <sub>2</sub> O <sub>3</sub> /V <sub>3</sub> O <sub>7</sub> Heterostructures to Optimize Cathode Efficiency for Zn-Ion Batteries             | 2024 | The journal of physical chemistry letters                        | 5.7   | <a href="https://doi.org/10.1021/acs.jpcelett.3c03590">https://doi.org/10.1021/acs.jpcelett.3c03590</a>           |
| 15 | Gautham Devendrapandi, Ranjith Balu , K. Ayyappan , Ramamoorthy Ayyamperumal , Salh Alhammadi , Mahimaluru Lavanya , R. Senthilkumar , P.C. Karthika | Unearthing Earth's secrets: Exploring the environmental legacy of contaminants in soil, water, and sediments                                                                   | 2024 | Environmental Research                                           | 8.431 | <a href="https://doi.org/10.1016/j.envres.2024.118246">https://doi.org/10.1016/j.envres.2024.118246</a>           |
| 16 | Srinivasan Moosi Govindharajulu, Alok Kumar Jain, Malar Piraviperumal                                                                                | Tuning the crystalline orientation of quasi 1D anisotropic Sb <sub>2</sub> Se <sub>3</sub> as a function of growth temperature for thin film photovoltaic applications         | 2024 | Journal of Alloys and Compounds                                  | 6.2   | <a href="https://doi.org/10.1016/j.jallcom.2024.173588">https://doi.org/10.1016/j.jallcom.2024.173588</a>         |
| 17 | R Roshan Chandrapal, K Bharathi, G Bakiyaraj, S Bharathkumar, Y Priyajanani, S Manivannan, J Archana, M Navaneethan                                  | Harnessing ZnCr <sub>2</sub> O <sub>4</sub> /g-C <sub>3</sub> N <sub>4</sub> nanosheet heterojunction for enhanced photocatalytic degradation of rhodamine B and ciprofloxacin | 2024 | Chemosphere                                                      | 8.94  | <a href="https://doi.org/10.1016/j.chemosphere.2023.141094">https://doi.org/10.1016/j.chemosphere.2023.141094</a> |

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| 18 | R Sangeetha, V Charles Vincent, G Bakiyaraj, K Kirubavathi, K Selvaraju                                                                                                                | Growth, structural, linear and nonlinear optical investigations of L-cysteine ethyl ester hydrochloride crystals for optical applications                                                                                    | 2024 | Results in Optics                                      | -     | <a href="https://doi.org/10.1016/j.rio.2024.100607">https://doi.org/10.1016/j.rio.2024.100607</a>                 |
| 19 | Mriganki Singh, Rugma T.P., Shiny Golda A, Bernaurdshaw Neppolian, Naushad Mu, Sandeep Kumar Lakhera                                                                                   | Selective vanadium etching and in-situ formation of $\beta$ -Bi <sub>2</sub> O <sub>3</sub> on m-BiVO <sub>4</sub> with g-C <sub>3</sub> N <sub>4</sub> nanosheets for photocatalytic degradation of antibiotic tetracycline | 2024 | Journal of Cleaner Production                          | 11.1  | <a href="https://doi.org/10.1016/j.jclepro.2024.140921">doi.org/10.1016/j.jclepro.2024.140921</a>                 |
| 20 | Ravindra W. Gaikwad, Amol Vijay Sonawane, Vikas S. Hakke, Shirish H. Sonawane, Mahendra S. Gaikwad, Sandeep Kumar Lakhera, Venu Babu Ge, A.R. Warade, Ajay B. Urgunde, Vilas S. Sapkal | Application of apophyllite and thomsonite natural zeolite as modified adsorbents for the removal of zinc from acid mine drainage                                                                                             | 2024 | Chemosphere                                            | 8.8   | <a href="https://doi.org/10.1016/j.chemosphere.2023.141095">https://doi.org/10.1016/j.chemosphere.2023.141095</a> |
| 21 | Madhuparna Karmakar                                                                                                                                                                    | Magnetotransport and Fermi surface segmentation in Pauli limited superconductors                                                                                                                                             | 2024 | Journal of Physics: Condensed Matter                   | 2.745 | <a href="https://doi.org/10.1088/1361-648X/ad1bf6">https://doi.org/10.1088/1361-648X/ad1bf6</a>                   |
| 22 | Triparno Bandyopadhyay                                                                                                                                                                 | Dark photons from displaced vertices                                                                                                                                                                                         | 2024 | THE EUROPEAN PHYSICAL JOURNAL SPECIAL TOPICS           | 2.8   | <a href="https://doi.org/10.1140/epjs/s11734-024-01087-5">https://doi.org/10.1140/epjs/s11734-024-01087-5</a>     |
| 23 | S. Sampurnam, S. Muthamizh, K. Arul Varman, and V. Narayanan                                                                                                                           | A homogeneous Zr based polyoxometalate coupled with Ppy/PTA for efficient photocatalytic degradation of organic pollutants                                                                                                   | 2024 | Journal of Materials Science: Materials in Electronics | 2.8   | <a href="https://doi.org/10.1007/s10854-023-11817-5">https://doi.org/10.1007/s10854-023-11817-5</a>               |

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| 24 | S. Muthamizh, Md Shahadat Hossain, Ali Alsulmi, Romulo R. Macadangdang Jr, Sangaraju Sambasivam, K. Arul Varman                                                                   | Design and construction of heterostructured Zn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> cubes and hexagons as an electrode material for high-performance asymmetric supercapacitor applications | 2024 | Journal of Colloid and Interface Science | 9.9   | Journal of Colloid and Interface Science                                                                          |
| 25 | Gopinath Venkatraman, Nelli Giribabu, Priyadarshini Sakthi Mohan, Barathan Muttiah, Venkat Kumar Govindarajan , Mani Alagiri , Puteri Shafinaz Abdul Rahman , Saiful Anuar Karsan | Environmental impact and human health effects of polycyclic aromatic hydrocarbons and remedial strategies: A detailed review                                                                      | 2024 | Chemosphere                              | 8.8   | <a href="https://doi.org/10.1016/j.chemosphere.2024.141227">https://doi.org/10.1016/j.chemosphere.2024.141227</a> |
| 26 | C. Nagarajan , R. Annie Sujatha Seunghwoi Han                                                                                                                                     | Defect-induced tuning from reverse saturable absorption to saturable absorption in pristine and rare-earth-substituted MnCO <sub>3</sub> microspheres                                             | 2024 | Optical materials                        | 3.754 | <a href="https://doi.org/10.1016/j.optmat.2024.114953">https://doi.org/10.1016/j.optmat.2024.114953</a>           |
| 27 | BettyÂ Lincoln Â Â· AnnieÂ Sujatha Â Â· PandiyarasanVeluswamy Â Â· HiroyaÂ Ikeda Â Â· AbhijitÂ Majumdar                                                                           | Smart Fabric Based Wearable Thermoelectric Device with UV Blocking and Antibacterial Capability for Energy Harvesting Applications                                                                | 2024 | Brazilian Journal of Physics             | 1.36  | <a href="https://doi.org/10.1007/s13538-023-01409-3">https://doi.org/10.1007/s13538-023-01409-3</a>               |
| 28 | Nithyapriya, M. S., S. Athithya, Sivalingam Muthu Mariappan, S. Harish, M. Navaneethan, J. Archana.                                                                               | Tailoring the work function of SnS <sub>2</sub> /SnO <sub>2</sub> composites for improved counter electrode performance in dye-sensitized solar cells                                             | 2024 | Emergent Materials                       | 3.9   | <a href="https://doi.org/10.1007/s42247-023-00618-5">10.1007/s42247-023-00618-5</a>                               |

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| 29 | Priyadharshini, S., V. Vijay, S. Kamalakannan, J. Archana, M. Navaneethan                                                                                   | Realizing an ultralow thermal conductivity via interfacial scattering and rational-electronic band reformation in p-type Mg <sub>3</sub> Sb <sub>2</sub>                                                        | 2024 | Applied Physics Letters                                | 3.971 | 10.1063/5.0180722                                                                                   |
| 30 | Manikandan, V. S., Kesiya George, M. Shimna, Arun Thirumurugan, S. Harish, M. Navaneethan                                                                   | Electrochemical performance of Bi <sub>2</sub> WO <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> (2Dâ€²2D) hybrid heterostructure as negative electrode materials for supercapacitor application                 | 2024 | Journal of Materials Science: Materials in Electronics | 2.8   | 10.1007/s10854-023-11804-w                                                                          |
| 31 | Kowsalya Murugan, M. Karunakaran, Srikanti Kavita, S. Paulraj, Rudra Banerjee, Kathirvel Venugopal                                                          | Unconventional critical behavior in room temperature magnetocaloric material: Fe <sub>30</sub> Cr <sub>45</sub> V <sub>25</sub> all d-metal Heusler alloy                                                       | 2024 | Journal of Solid State Chemistry                       | 3.3   | <a href="https://doi.org/10.1016/j.jssc.2024.124602">https://doi.org/10.1016/j.jssc.2024.124602</a> |
| 32 | Prakash Sarkar, A. V. Muhammed Ali, Murali Gedda, Abhay A. Sagade, and K. D. M. Rao                                                                         | Homojunction Interface Boosts Hole-Carrier Injection in p-Type CuI Nanoribbon Field-Effect Transistors                                                                                                          | 2024 | ACS Applied Electronic Materials                       | 4.7   | <a href="https://doi.org/10.1021/acsaelm.3c01763">https://doi.org/10.1021/acsaelm.3c01763</a>       |
| 33 | Velusamy Periyasamy, Shanhu Liu, M. Sathiya, Awais Ahmad, Elangovan Elamurugu, Asma A Alothman, Mohammad Sheikh Saleh Mushab, Fuchun Zhang, and Xinghui Liu | Photoelectrochemical Water Separation and Dye Degradation Catalyzed by gâ€²C <sub>3</sub> N <sub>4</sub> /MoS <sub>2</sub> Nanosheets Doped with V <sup>2+</sup> Metal Ions Coated on TiO <sub>2</sub> Nanorods | 2024 | ACS Applied Nano Materials                             | 6.14  | <a href="https://doi.org/10.1021/acsanm.3c05151">https://doi.org/10.1021/acsanm.3c05151</a>         |
| 34 | B.S. Subathra , Madhuvathani Saminathan, Prince Wesley, Lokeshwaran Ravi, Manjusha Battabyal, Debattam Sarkar, Suresh Perumal , Ravikirana                  | Thermoelectric properties of iso-valent Bi substituted n-type Ti <sub>2</sub> NiCoSnSb high entropy alloys                                                                                                      | 2024 | Intermetallics                                         | 4.4   | 10.1016/j.intermet.2024.108233                                                                      |

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| 35 | Gouri Sankar , Madhuvathani Saminathan, Suresh Perumal, Geetha Arunachalam                 | Thermoelectric properties of aliovalent Zn doped Cu <sub>1.8</sub> S polycrystalline materials                                                                                    | 2024 | Ceramics International       | 5.2   | <a href="https://doi.org/10.1016/j.ceramint.2024.01.252">https://doi.org/10.1016/j.ceramint.2024.01.252</a>         |
| 36 | PC Santhosh, S Jayakumar, MM Mohideen, AV Radhamani                                        | Harnessing Light Energy: Electrodeposited ZnO: ZnMn <sub>2</sub> O <sub>4</sub> Nano-heterojunction as Promising electrode for Photo-Rechargeable Supercapacitors                 | 2024 | Materials research bulletin  | 5.6   | <a href="https://doi.org/10.1016/j.materresbull.2024.112722">https://doi.org/10.1016/j.materresbull.2024.112722</a> |
| 37 | P.N. Blessy Rebecca, D. Durgalakshmi, S. Balakumar, R. Ajay Rakkesh                        | Enhancing self-powered wearable device performance: ZIF-8/rGO hybrid nanostructures for extended operation and electrochemical glucose detection                                  | 2024 | Chemical Engineering Journal | 15.1  | <a href="https://doi.org/10.1016/j.cej.2024.149789">https://doi.org/10.1016/j.cej.2024.149789</a>                   |
| 38 | Tharani Selvam; Durgalakshmi Dhinasekaran; Balakumar Subramanian; Ajay Rakkesh Rajendran   | High-performance aqueous zinc-ion battery cathodes: Enhanced performance with V <sub>2</sub> O <sub>5</sub> /graphene sandwich-like heterostructures featuring structural defects | 2024 | Applied Physics Letters      | 4     | <a href="https://doi.org/10.1063/5.0192236">https://doi.org/10.1063/5.0192236</a>                                   |
| 39 | S. Vibavakumar , K.D. Nisha , J. Archana , M. Navaneethan , S. Harish                      | Synergistic effect and enhanced charge transfer in Nb <sub>2</sub> O <sub>5</sub> -rGO/TiO <sub>2</sub> photoanode for dye-sensitized solar cells                                 | 2024 | SOLAR ENERGY                 | 7.188 | <a href="https://doi.org/10.1016/j.solener.2024.112398">https://doi.org/10.1016/j.solener.2024.112398</a>           |
| 40 | Keum-Jin Ko, Hyun Woo Cho, Hock Beng Lee, P. Justin Jesuraj, Jae-Wook Kang, Seung Yoon Ryu | Indium-free, highly flexible semi-transparent organic light-emitting diodes featuring MoO <sub>3</sub> /Au/MoO <sub>3</sub> multilayer anode and cathode                          | 2024 | Organic Electronics          | 3.2   | <a href="https://doi.org/10.1016/j.orgel.2024.107022">https://doi.org/10.1016/j.orgel.2024.107022</a>               |

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| 41 | Gautham Devendrapandia,Xinghui Liub,Ranjith Baluc,Ramamoorthy Ayyamperumald, Mariadhas Valan Arasue, Mahimaluru Lavanyaf, Vasudeva Reddy Minnam Reddyh, Woo Kyoung Kimh, P.C. Karthika | Innovative remediation strategies for persistent organic pollutants in soil and water: A comprehensive review              | 2024 | Environmental Research                                 | 8.431 | <a href="https://doi.org/10.1016/j.envres.2024.118404">https://doi.org/10.1016/j.envres.2024.118404</a> |
| 42 | B. Renganathan , Subha Krishna Rao , C. Poornimadevi , Manjunath S. Kamath , E. Meher Abhinav , Thrinayan Moorthy , A. Kalai Priya , C. Preferencial Kala                              | Delineating the sensing analysis of discarded pencil graphite in biofuel ethanol – Experimental and theoretical validation | 2024 | Materials Letters                                      | 3.574 | <a href="https://doi.org/10.1016/j.matlet.2024.136118">https://doi.org/10.1016/j.matlet.2024.136118</a> |
| 43 | Gokuladeepan Periyasamy, Ajaijawahar Kaliyaperumal, Rameshbabu Ramachandran, Karthigeyan Annamalai                                                                                     | Enhanced hydrogen storage performance of gâ€C3N4/ CoMn2O4 nanocomposites                                                   | 2024 | Journal of Materials Science: Materials in Electronics | 2.8   | <a href="https://doi.org/10.1007/s10854-024-12200-8">https://doi.org/10.1007/s10854-024-12200-8</a>     |
| 44 | Prakash Govindaraj, Kowsalya Murugan and Kathirvel Venugopal                                                                                                                           | One-dimensional van der Waals BiSBr: an anisotropic thermoelectric mineralâ€                                               | 2024 | Physical Chemistry Chemical Physics (PCCP)             | 3.3   | 10.1039/d3cp05849b                                                                                      |
| 45 | Manojkumar Moorthy, Prakash Govindaraj, Rajasekar Parasuraman, Animesh Bhui, Sri Sai Samhitha Gadhavajhala, Bhuvanesh Srinivasan, Kathirvel Venugopal, and Suresh Perumal              | Sulfur Vacancy-Driven Band Splitting and Phonon Anharmonicity Enhance the Thermoelectric Performance in nâ€Type CuFeS2     | 2024 | ACS Applied Energy Materials                           | 6.4   | <a href="https://doi.org/10.1021/acsaem.3c03176">https://doi.org/10.1021/acsaem.3c03176</a>             |
| 46 | Kowsalya Murugan, M. Karunakaran, Srikanti Kavita, S. Paulraj, Rudra Banerjee, and Kathirvel Venugopal                                                                                 | Unconventional critical behavior in room temperature magnetocaloric material: Fe30Cr45V25 all d-metal Heusler alloy        | 2024 | Journal of Solid State Chemistry                       | 3.3   | 10.1016/j.jssc.2024.124602                                                                              |



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| 47 | AS Jayasree, N Angeline Little Flower, R Annie Sujatha, M Durairaj, TC Girisun, K Mani Rahulan                                             | Structural characteristics and enhanced two-photon absorption behavior of Pb-doped ZnMoO <sub>4</sub> nanostructures for optoelectronic device applications | 2024 | Applied Physics A                             | 2.7 | <a href="https://doi.org/10.1007/s00339-024-07340-x">https://doi.org/10.1007/s00339-024-07340-x</a> |
| 48 | D. Kanchan Kumar , P. Bharti, A. Govind, J. Archana , M. Navaneethan , S. Harish                                                           | Detection of NO <sub>2</sub> at ppm-level using Al-doped CeO <sub>2</sub> based gas sensor with high sensitivity and selectivity at room temperature        | 2024 | Journal of Environmental Chemical Engineering | 7.7 | -                                                                                                   |
| 49 | A. Govind a, P. Bharathi a b, S. Harish a, M. Krishna Mohan a, J. Archana a, M. Navaneethan                                                | Interface engineering of a highly sensitive porous CuO modified rGO layers for room temperature NO <sub>2</sub> gas sensor                                  | 2024 | Applied Surface Science                       | 6.7 | 10.1016/j.apsusc.2024.159604                                                                        |
| 50 | Vasudevan Jayaseelan, Navaneethan Mani, and Senthil Kumar Eswaran                                                                          | Large Electrical Conductivity and Thermoelectric Power Factor of Pulsed Laser-Deposited Zn <sub>1-x</sub> Ga <sub>x</sub> O Thin Films                      | 2024 | ACS Applied Energy Materials                  | 6.4 | <a href="https://doi.org/10.1021/acsaem.3c03061">https://doi.org/10.1021/acsaem.3c03061</a>         |
| 51 | Bharath Jaisankar, Venkata Lakshmi Kumar Tumuluru, Naga Rajesh Anandan                                                                     | Spatio-temporal correspondence of aerosol optical depth between CMIP6 simulations and MODIS retrievals over India                                           | 2024 | Environmental Science and Pollution Research  | 5.8 | <a href="https://doi.org/10.1007/s11356-024-32314-0">https://doi.org/10.1007/s11356-024-32314-0</a> |
| 52 | Sivakumar Aswathappa, Lidong Dai, S Sahaya Jude Dhas, SA Martin Britto Dhas, K Kamala Bharathi, Raju Suresh Kumar, Abdulrahman I Almansour | Experimental demonstration of acoustic shock-wave-induced solid-state morphological transformation from irregular to rod shape: a case study of l-tyrosine  | 2024 | CrystEngComm                                  | 3.1 | <a href="https://doi.org/10.1039/D3CE01002C">https://doi.org/10.1039/D3CE01002C</a>                 |

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| 53 | P. Catherine, B. Gunasekaran, P. Praveen Kumar                                                                                                                                                                           | Benzimidazolium gallate: organic crystal for photonic and optoelectronic applications                                                            | 2024 | Optical and Quantum Electronics  | 3.14 | <a href="https://doi.org/10.1007/s11082-023-06091-y">https://doi.org/10.1007/s11082-023-06091-y</a> |
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| 2010- | 299 |
| 2017  | 188 |
| 2018  | 177 |
| 2019  | 208 |
| 2020  | 146 |
| 2021  | 318 |
| 2022  | 330 |
| 2023  | 316 |
| 2024  | 317 |