

Dr Govardhana Babu

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Benzimidazole-Branched Isomeric Dyes: Effect of Molecular Constitution on Photophysical, Electrochemical, and Photovoltaic Properties. <i>Journal of Organic Chemistry</i> , 2016, 81, 640-653. | 3.2 | 58 |
| 2 | Design-Device Approach Affords Panchromatic Co-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1802820. | 19.5 | 40 |
| 3 | Benzothiadiazole-based organic dyes with pyridine anchors for dye-sensitized solar cells: effect of donor on optical properties. <i>Tetrahedron</i> , 2015, 71, 4203-4212. | 1.9 | 38 |
| 4 | Development and advancement of iridium(III)-based complexes for photocatalytic hydrogen evolution. <i>Coordination Chemistry Reviews</i> , 2022, 459, 214390. | 18.8 | 38 |
| 5 | Enhancing photocatalytic hydrogen evolution by intramolecular energy transfer in naphthalimide conjugated porphyrins. <i>Chemical Communications</i> , 2018, 54, 11614-11617. | 4.1 | 36 |
| 6 | Functional tuning of phenothiazine-based dyes by a benzimidazole auxiliary chromophore: an account of optical and photovoltaic studies. <i>RSC Advances</i> , 2014, 4, 53588-53601. | 3.6 | 35 |
| 7 | Bifunctional Organic Dyes that Contain Benzimidazole Branches for Dye-Sensitized Solar Cells: Effects of Spacer and Peripheral Donor Groups. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2564-2577. | 3.3 | 32 |
| 8 | Naphthalimide-porphyrin hybridized graphitic carbon nitride for enhanced photocatalytic hydrogen production. <i>Applied Surface Science</i> , 2020, 499, 143755. | 6.1 | 32 |
| 9 | Phenylene-bridged peryleneimide-porphyrin acceptors for non-fullerene organic solar cells. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2616-2624. | 4.9 | 30 |
| 10 | Phenothiazine-based bipolar green-emitters containing benzimidazole units: synthesis, photophysical and electroluminescence properties. <i>RSC Advances</i> , 2015, 5, 87416-87428. | 3.6 | 29 |
| 11 | Self-Assembled Naphthalimide-Substituted Porphyrin Nanowires for Photocatalytic Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2020, 3, 7040-7046. | 5.0 | 27 |
| 12 | Iridium motif linked porphyrins for efficient light-driven hydrogen evolution via triplet state stabilization of porphyrin. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3005-3010. | 10.3 | 26 |
| 13 | A thiophene bridged naphthalimide-porphyrin complex with enhanced activity and stability in photocatalytic H ₂ evolution. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2675-2679. | 4.9 | 21 |
| 14 | Cocatalyst-free Photocatalytic Hydrogen Evolution with Simple Heteroleptic Iridium(III) Complexes. <i>ACS Applied Energy Materials</i> , 2021, 4, 3945-3951. | 5.1 | 20 |
| 15 | Coupling of a new porphyrin photosensitizer and cobaloxime cocatalyst for highly efficient photocatalytic H ₂ evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 20645-20652. | 10.3 | 20 |
| 16 | Enhanced cocatalyst-free photocatalytic H ₂ evolution by the synergistic AIE and FRET for an Ir-complex conjugated porphyrin. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4440-4445. | 10.3 | 17 |
| 17 | Long-lived excited states of platinum(II)-porphyrins for highly efficient photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13402-13409. | 10.3 | 12 |
| 18 | Functionalized Imidazole-Fused Porphyrin-Donor-Based Dyes: Effect of Linker and Acceptor on Optoelectronic and Photovoltaic Properties. <i>ChemistrySelect</i> , 2018, 3, 2558-2564. | 1.5 | 11 |

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|----|---|-----|-----------|
| 19 | Effect of Donors on Photophysical, Electrochemical and Photovoltaic Properties of Benzimidazole- <i>n</i> -Branched Dyes. <i>ChemistrySelect</i> , 2017, 2, 2807-2814. | 1.5 | 4 |
| 20 | T-shaped Benzimidazole Derivatives as Blue-Emitting Materials: The Role of C2 Substituents on Photophysical Properties. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 729-738. | 2.7 | 4 |
| 21 | Correction to Cocatalyst-free Photocatalytic Hydrogen Evolution with Simple Heteroleptic Iridium(III) Complexes. <i>ACS Applied Energy Materials</i> , 2021, 4, 6374-6374. | 5.1 | 0 |