

Marimuthu Venkatesh Perumal

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

556
citations

623734

14
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

550
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A study on the binding interaction between the imidazole derivative and bovine serum albumin by fluorescence spectroscopy. <i>Journal of Luminescence</i> , 2012, 132, 707-712. | 3.1 | 58 |
| 2 | A physicochemical study of excited state intramolecular proton transfer process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 6-16. | 3.9 | 57 |
| 3 | Fluorescence resonance energy transfer from a bio-active imidazole derivative 2-(1-phenyl-1H-imidazo[4,5-f][1,10]phenanthroline-2-yl)phenol to a bioactive indoloquinoline system. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 236-244. | 3.9 | 53 |
| 4 | Mechanistic investigation on binding interaction of bioactive imidazole with protein bovine serum albumin: A biophysical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 502-507. | 3.9 | 42 |
| 5 | A physicochemical study of azo dyes: DFT based ESIPT process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 200-206. | 3.9 | 34 |
| 6 | Physicochemical studies of molecular hyperpolarizability of imidazole derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 137-147. | 3.9 | 32 |
| 7 | An Intramolecular Charge Transfer Fluorescent Probe: Synthesis, Structure and Selective Fluorescent Sensing of Cu ²⁺ . <i>Journal of Fluorescence</i> , 2011, 21, 1813-1823. | 2.5 | 31 |
| 8 | Luminescent study on the binding interaction of bioactive imidazole with bovine serum albumin: A static quenching mechanism. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 84, 233-237. | 3.9 | 27 |
| 9 | Spectrofluorometric studies on the binding interaction of bioactive imidazole with bovine serum albumin: A DFT based ESIPT process. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 1240-1246. | 3.9 | 24 |
| 10 | Characterization, photophysical and DFT calculation study on 2-(2,4-difluorophenyl)-1-(4-methoxyphenyl)-1H-imidazo[4,5-f][1,10]phenanthroline ligand. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 614-621. | 3.9 | 24 |
| 11 | Fluorescence spectral studies of some imidazole derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 90, 125-130. | 3.9 | 18 |
| 12 | Photophysical studies of fused phenanthrimidazole derivatives as versatile π -conjugated systems for potential NLO applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 92, 113-121. | 3.9 | 18 |
| 13 | Evidence for Strong Mixing Between the LC and MLCT Excited States in Some Heteroleptic Iridium (III) Complexes. <i>Journal of Fluorescence</i> , 2011, 21, 1585-1597. | 2.5 | 16 |
| 14 | Physicochemical and solvatochromic analysis of an imidazole derivative as NLO material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 85, 31-37. | 3.9 | 14 |
| 15 | Solvatochromic Studies of Fluorescent Azo Dyes: Kamlet-Taft (ρ^* , σ^+ and σ^-) and Catalan (Spp, SA and SB) Solvent Scales Approach. <i>Journal of Fluorescence</i> , 2012, 22, 213-221. | 2.5 | 14 |
| 16 | Synthesis, Crystal Structure, Kamlet-Taft and Catalan Solvatochromic Analysis of Novel Imidazole Derivatives. <i>Journal of Fluorescence</i> , 2012, 22, 409-417. | 2.5 | 13 |
| 17 | Binding interaction of bioactive imidazole with bovine serum albumin: A mechanistic investigation. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 587-591. | 3.9 | 11 |
| 18 | Antioxidant potential and antimicrobial screening of some novel imidazole derivatives: greenway efficient one pot synthesis. <i>Medicinal Chemistry Research</i> , 2012, 21, 1850-1860. | 2.4 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Optical properties of organic nonlinear optical crystalâ€”A combined experimental and theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 86, 69-75. | 3.9 | 10 |
| 20 | Electronic properties of phenanthrimidazoles as hole transport materials in organic light emitting devices and in photoelectron transfer to ZnO nanoparticles. <i>Journal of Physical Organic Chemistry</i> , 2013, 26, 386-406. | 1.9 | 10 |
| 21 | Physicochemical studies of green phosphorescent light-emitting materials from cyclometalated heteroleptic iridium(III) complexes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 338-347. | 3.9 | 9 |
| 22 | Studies on interaction between an imidazole derivative and bovine serum by spectral methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 622-626. | 3.9 | 9 |
| 23 | Displacement Reaction Using Ibuprofen in a Mixture of Bioactive Imidazole Derivative and Bovine Serum Albuminâ€”a Fluorescence Quenching Study. <i>Journal of Fluorescence</i> , 2011, 21, 1825-1830. | 2.5 | 8 |
| 24 | Photophysical and computational studies of novel heterocyclic imidazole derivatives containing trifluoromethyl group substituent. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 95, 497-504. | 3.9 | 5 |
| 25 | Photophysical and theoretical investigations of diarylimidazole derivative with application as a fluorescence sensor for Fe(III). <i>Journal of Molecular Structure</i> , 2021, 1224, 129185. | 3.6 | 4 |
| 26 | Light-emitting materials from cyclometalated heteroleptic iridium(III) complexesâ€”A physicochemical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 87, 119-125. | 3.9 | 2 |
| 27 | Synthesis, spectral studies and solvatochromic analysis of novel imidazole derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012, 89, 194-200. | 3.9 | 2 |