



List of Publications

2022

83. Microwave-Assisted One-Pot Two-Step Imine Formation–Hetero-Diels-Alder–Detosylation/Aromatization Sequence: Direct Access to Dibenzo[*b,h*][1,6]naphthyridines

G. Jan, A. Kumar, M. Karuppasamy, D. Rajput, N. Slathia, K. K. Kapoor and **V. Sridharan**

Org. Biomol. Chem. **2022**, DOI: 10.1039/D2OB01216B
(Published: 08 September 2022)

82. Microwave-Assisted Copper(II)-Catalyzed Cascade Cyclization of Alkynes: Access to Densely Functionalized Imidazo[1,2-*d*][1,4]oxazepines and Imidazo[1,2-*d*][1,4]diazepines

D. Rajput, A. Kumar, T. Jandial, M. Karuppasamy, N. Bhuvanesh, R. S. Kumar, A. I. Almansour, **V. Sridharan***

J. Org. Chem. **2022**, *87*, 8956–8969. (Published: 28 June 2022)

81. Current perspectives on the environmental applications using conductive metal–organic frameworks (CMOFs)

T. Singh, S. Rarotra, P. Kumar, R. Sharma, **V. Sridharan** and C. Sonne
J. Porous Mater. DOI: 10.1007/s10934-022-01275-5
(Published: 22 July 2022)

80. Metal- and Solvent-Free Synthesis of *m*-terphenyls via Iodine-catalyzed Tandem Formal [3+3] Cycloaddition/Oxidation

T. Pavithra, G. Karthiyayini, S. Nagarajan, **V. Sridharan** and C. Uma Maheswari
Synlett **2022**, DOI: 10.1055/a-1903-5174 (Published: 17 July 2022)

79. Symmetrical Synthesis and Characterization of Five Coordinate In(III) Porphyrins with Salicylic Acid Derivatives

Devika Sharma, Deepmala Gupta, **Sujata Kundan***, Gauri.D.Bajju, S.Ravichandran
Print Edition ISSN: 0974-1496; ISSN (Online): 0976-0083
Rasayan Journal of Chemistry.**2022** (Accepted for Publication)

78. Effects of non-local exchange functionals in the density functional theories for the description of molecular vibrations

Amir Fayaz, **T. K. Roy*** and Subrata Banik*
J. Chem. Sci. 2022 134, 67
ISSN: 0973-7103 (Published: 16 June 2022)



77. Fluorescence sensors based on hydroxycarbazole for the determination of neurodegeneration-related halide anions

V. González-Ruiz, A. Cores, M. M. Caja, **V. Sridharan**, M. Villacampa, M. A. Martín, A. I. Olives,* J. C. Menéndez*
Biosensors **2022**, *12*, 175
ISSN: 2079-6374
(Published: 14 March 2022)

76. Performance of Vibrational Self-Consistent Field Theory for Accurate Potential Energy Surfaces: Fundamentals, Excited States, and Intensities

T. K. Roy*
J. Phys. Chem. A, **2022**, *126*, 608–622
ISSN: 1520-5215
(Published: 20 January 2022)

75. Hybrid hydrogels derived from renewable resources as a smart stimuli responsive soft material for drug delivery applications

V. Singh, Y. Siva Prasad, A. K. Rachamalla, V. P. Rebaka, T. Banoo, C. U. Maheswari, **V. Sridharan**, K. Lalitha,* S. Nagarajan*
RSC Adv. **2022**, *12*, 2009-2018.
ISSN: 2046-2069
(Published: 12 January 2022)

74. Halloysite nanotubes functionalized sulfonic acid: synthesis, spectroscopic characterization, computational studies and application for the synthesis of 1,4-dihydropyridines

P. Gupta,* N. Prakash, Y. Ramawat, P. Rajput, A. Fayaz, **T. K. Roy**
Lett. Org. Chem. **2021**, DOI: 10.2174/1570178618666210302160130 (Impact Factor: 0.867).
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73. Transition metal-catalyzed synthesis of 1,2-diketones: An overview

A. Kumar, **V. Sridharan***
Asian J. Org. Chem. **2021**, *10*, 1619–1637.
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(Published: 8 June 2021)

72. Synthesis of fused quinoline derivatives from easily accessible *N*-(2-aminobenzylidene)-4-methylanilines under catalyst-free conditions in water

T. Vivekanand, A. Kumar, J. C. Menéndez, R. Suresh Kumar, A. I. Almansour, N. Arumugam, **V. Sridharan***



- ChemistrySelect* **2021**, 6, 10436–10439.
Online ISSN:2365-6549
(Published: 12 October 2021)
71. Sulfur catalyzed metal- and solvent-free ABB'C four-component synthesis of *N*-arylidene-2-aryl-imidazo[1-2-*a*]azin-3-amines via Strecker reaction
T. Pavithra, E. Sankari Devi, S. Nagarajan, **V. Sridharan**, C. U. Maheswari*
ChemistrySelect **2021**, 6, 3548–3552.
Online ISSN:2365-6549
(Published: 14 April 2021)
70. Porphyrin bearing phenothiazine pincers as hosts for fullerene binding via concave–convex complementarity: synthesis and complexation study
K. Jain, N. Duvva, **T. K. Roy**,* L. Giribabu,* R. Chitta*
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Online ISSN: 1144-0546
69. Cu-catalyzed solvent-free, pot-economic synthesis of 1,3-dynes from 1,1-dibromoalkenes in the presence of DBU.H₂O
K. Moodapelly, Y. Nanaji, G. V. M. Sharma, K. Suneel, **V. R. Doddi***
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68. Urea-promoted metal-free homolytic alkynyl substitution (HAS): Metal-free C-C coupling of alkynyl bromides formed in situ from 1,1-dibromoalkenes
A. K. Morri, Y. Thummala, S. Ghosh, **V. R. Doddi***
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67. Surface modified novel magnetically tuned halloysite functionalized sulfonic acid: Synthesis, characterization and catalytic activity
P. Kumar, **P. Gupta**,* C. Sharma
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66. Coronavirus (COVID-19): Chemical entities of biological interest
A. Mahajan,* **P. Gupta***
Mini Rev. Med. Chem. **2021**, DOI: 10.2174/1389557521666210125145700 (Impact Factor: 3.862).
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65. Symmetrical Zn(II)porphyrin complexes: axial ligation effect
S. Kundan,* G. D. Bajju, A. Ahmed, S. Anand, D. Sharma
Chem. Sci. Trans. **2021**, Accepted for publication.
ISSN: 2278-3318 (Online); ISSN: 2278-3458 (Print)
64. Gold-catalyzed formation of substituted aminobenzophenone derivatives via intramolecular 6-*endo-dig* cyclization.



P. Dalovai, G. V. Karunakar, V. D. Nadar, **V. R. Doddi**, S. Kanaparthi
J. Chem. Sci. **2021**, *133*, 19.
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63. Direct access to bridged tetrahydroquinolines and chromanes *via* an InCl₃-catalyzed sequential three-component cascade

B. S. Vachan, M. Karuppasamy, G. Jan, N. Bhuvanesh, C. U. Maheswari,* **V. Sridharan***
J. Org. Chem. **2020**, *85*, 8062–8073.
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(Published: 26 May 2020)

62. Palladium(II)-catalyzed direct access to indeno[1,2-*c*]isochromen-5(11*H*)-ones *via* intramolecular oxypalladation-initiated cascade process

M. Karuppasamy, B. S. Vachan, T. Jandial, S. B. Annes, N. Bhuvanesh, C. U. Maheswari, **V. Sridharan***
Adv. Synth. Catal. **2020**, *362*, 2716–2724.
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61. Regioselective synthesis of tetrahydroquinolines *via syn*- and anti-nucleopalladation-initiated cascade processes

M. Karuppasamy, P. Vinoth, N. Pradeep, S. Nagarajan, C. U. Maheswari, **V. Sridharan***
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60. An injectable self-healing anesthetic glycolipid-based oleogel with antibiofilm and diabetic wound skin repair properties

Y. S. Prasad, S. Miryala, K. Lalitha, B. Saritha, C. U. Maheswari, **V. Sridharan**, C. S. Srinandan, S. Nagarajan
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J. Priyanga, B. S. Kumar, R. Mahalakshmi, K. Nirekshana, P. Vinoth, **V. Sridharan**, D. Bhakta-Guha, G. Guha

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57. Antioxidants as molecular probes: Structurally novel dihydro-*m*-Terphenyls as turn-on fluorescence chemodosimeters for biologically relevant oxidants

V. González-Ruiz, J. Rajesh, A. I. Olives, D. Rocchi, J. Gómez-Carpintero, J. F. González, **V. Sridharan**, M. A. Martín, J. C. Menéndez

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56. Glycolipid-based oleogels and organogels: Promising nanostructured structuring agents

A. Thamizhanban, S. Balaji, K. Lalitha, Y. S. Prasad, R. V. Prasad, R. A. Kumar, C. U. Maheswari, **V. Sridharan**, S. Nagarajan

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I. Muthukrishnan, M. Karuppasamy, B. S. Vachan, D. Rajput, S. Nagarajan, C. U. Maheswari and **V. Sridharan***

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E. Sankari Devi, T. Pavithra, A. Tamilselvi, S. Nagarajan, **V. Sridharan**, C. U. Maheswari

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B. S. Vachan, M. Karuppasamy, P. Vinoth, S. V. Kumar, S. Perumal, **V. Sridharan,*** J. Carlos Menéndez*
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S. Banik, A. K. Sansi, S. Nandan, **T. K. Roy***
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S. Panda, R. S. Jat, A. Fayaz, J. Saha, R. Thirumoorthi, **T. K. Roy**, M. Bhanuchandra
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S. Yadav, S. Ray, A. Singh, S. M. mobin, **T. K. Roy**, C. Dash*
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T. K. Roy* R. B. Gerber*
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H. Mitra. **T. K. Roy***
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A. Mahajan, **P. Gupta***
New J. Chem. **2020**, 44, 12897–12908 (Impact Factor: 3.591).
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41. Carbon based solid acids: A review
A. Mahajan, **P. Gupta***
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40. Solution-Processed Hybrid Hosts: A Way to Clinch High Triplet Energy with Admirable Current and Power Efficiency Devoiding Outcoupling Mode for Phosphorescent OLED
D. Thakur, D. Dubey, R. Yadav, V. Mangili, **S. Banik**, J.-H. Jou, S. Ghosh
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M. Miele, R. D'Orsi, **V. Sridharan**, W. Holzer, V. Pace



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T. Pavithra, E. Sankari Devi, S. Nagarajan, **V. Sridharan**, C. U. Maheswari

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36. Heterogeneous Amberlyst-15-catalyzed synthesis of complex hybrid heterocycles containing [1,6]-naphthyridine under metal-free green conditions

I. Muthukrishnan, B. S. Vachan, M. Karuppasamy, A. Eniyaval, C. U. Maheswari, S. Nagarajan, J. C. Menéndez, **V. Sridharan***

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P. Vinoth, M. Karuppasamy, B. S. Vachan, I. Muthukrishnan, C. U. Maheswari, S. Nagarajan, V. Pace, A. Roller, N. Bhuvanesh, **V. Sridharan***

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34. Diastereoselective ABB' three-component synthesis of highly functionalized spirooxindoles bearing five consecutive asymmetric carbons

T. Vivekanand, B. S. Vachan, M. Karuppasamy, I. Muthukrishnan, C. U. Maheswari, S. Nagarajan, N. Bhuvanesh, **V. Sridharan***

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33. Progress in the chemistry of tetrahydroquinolines
I. Muthukrishnan, **V. Sridharan**,* J. C. Menéndez*
Chem. Rev. **2019**, *119*, 5057–5191 (Impact Factor: 54.301)
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32. Construction of substituted imidazoles from aryl methyl ketones and benzylamines via N-heterocyclic carbene-catalysis
P. A. Alanthadka, E. Sankari Devi, T. Pavithra, S. Nagarajan, **V. Sridharan**, C. U. Maheswari
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