

# Nem Singh

## List of Publications by Year in descending order

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62  
papers

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126907

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docs citations

64  
times ranked

3113  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Self-Organization in Coordination-Driven Self-Assembly. <i>Accounts of Chemical Research</i> , 2009, 42, 1554-1563.   | 15.6 | 670       |
| 2  | Biomedical and Biochemical Applications of Self-Assembled Metallacycles and Metallacages. <i>Accounts of Chemical Research</i> , 2013, 46, 2464-2474.   | 15.6 | 438       |
| 3  | Coordination-Driven Self-Assembly of $M_{3}L_{2}$ Trigonal Cages from Preorganized Metalloligands Incorporating Octahedral Metal Centers and Fluorescent Detection of Nitroaromatics. <i>Inorganic Chemistry</i> , 2011, 50, 1506-1512. | 4.0  | 175       |
| 4  | Formation of [3]Catenanes from 10 Precursors via Multicomponent Coordination-Driven Self-Assembly of Metallarectangles. <i>Journal of the American Chemical Society</i> , 2013, 135, 2084-2087.   | 13.7 | 164       |
| 5  | Photodynamic therapy for hypoxic tumors: Advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2021, 438, 213888.  | 18.8 | 151       |
| 6  | Hexanuclear self-assembled arene-ruthenium nano-prismatic cages: potential anticancer agents. <i>Chemical Communications</i> , 2011, 47, 5184.  | 4.1  | 134       |
| 7  | Nanoscale porous organic polymers for drug delivery and advanced cancer theranostics. <i>Chemical Society Reviews</i> , 2021, 50, 12883-12896.  | 38.1 | 108       |
| 8  | Selective Synthesis of Molecular Borromean Rings: Engineering of Supramolecular Topology via Coordination-Driven Self-Assembly. <i>Journal of the American Chemical Society</i> , 2016, 138, 8368-8371.                                 | 13.7 | 98        |
| 9  | Selective Synthesis of Ruthenium(II) Metalla[2]Catenane via Solvent and Guest-Dependent Self-Assembly. <i>Journal of the American Chemical Society</i> , 2015, 137, 4674-4677.  | 13.7 | 97        |
| 10 | A Unique Non-catenane Interlocked Self-Assembled Supramolecular Architecture and Its Photophysical Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 19646-19649.  | 13.7 | 92        |
| 11 | Coordination-Driven Self-Assembly of Arene-Ruthenium Compounds. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 5222-5232.   | 2.0  | 83        |
| 12 | Anticancer Activity of Self-Assembled Molecular Rectangles via Arene <sup>π</sup> -Ruthenium Acceptors and a New Unsymmetrical Amide Ligand. <i>Organometallics</i> , 2012, 31, 3519-3526.  | 2.3  | 73        |
| 13 | Self-Assembled Novel BODIPY-Based Palladium Supramolecules and Their Cellular Localization. <i>Inorganic Chemistry</i> , 2017, 56, 4615-4621.   | 4.0  | 72        |
| 14 | Template-Free Synthesis of a Molecular Solomon Link by Two-Component Self-Assembly. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 2007-2011.   | 13.8 | 71        |
| 15 | Post-synthetic modifications in porous organic polymers for biomedical and related applications. <i>Chemical Society Reviews</i> , 2022, 51, 43-56.   | 38.1 | 68        |
| 16 | Band Gap Engineering in Solvchromic 2D Covalent Organic Framework Photocatalysts for Visible Light-Driven Enhanced Solar Fuel Production from Carbon Dioxide. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 14122-14131.    | 8.0  | 66        |
| 17 | Coordination-Driven Self-Assembly of a Molecular Knot Comprising Sixteen Crossings. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5669-5673.   | 13.8 | 65        |
| 18 | Molecular self-assembly of arene-Ru based interlocked catenane metalla-cages. <i>Chemical Communications</i> , 2014, 50, 7542-7544.   | 4.1  | 61        |

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|----|--|------|-----------|
| 19 | Ring-Closing Metathesis Reactions of Terminal Alkene-Derived Cyclic Phosphazenes. <i>Inorganic Chemistry</i> , 2011, 50, 250-260.  | 4.0  | 58        |
| 20 | Coordination-driven self-assembly of ruthenium-based molecular-rectangles: Synthesis, characterization, photo-physical and anticancer potency studies. <i>Dalton Transactions</i> , 2012, 41, 3046.  | 3.3  | 58        |
| 21 | DNA Binding and Unwinding by Self-Assembled Supramolecular Heterobimetallics. <i>Organometallics</i> , 2011, 30, 6343-6346.  | 2.3  | 57        |
| 22 | Coordination-driven self-assembly of an iridium-cornered prismatic cage and encapsulation of three heteroguests in its large cavity. <i>Chemical Communications</i> , 2015, 51, 4492-4495.   | 4.1  | 57        |
| 23 | Anticancer Potency and Multidrug-Resistant Studies of Self-Assembled Arene-Ruthenium Metallarectangles. <i>Chemistry - A European Journal</i> , 2013, 19, 11622-11628.   | 3.3  | 53        |
| 24 | Coordination-Driven Self-Assembly of 2D-Metallamacrocycles Using a New Carbazole-Based Dipyridyl Donor: Synthesis, Characterization, and C <sub>60</sub> Binding Study. <i>Inorganic Chemistry</i> , 2012, 51, 4817-4823.                  | 4.0  | 51        |
| 25 | Self-assembled metalla-rectangles bearing azodipyridyl ligands: synthesis, characterization and antitumor activity. <i>Dalton Transactions</i> , 2013, 42, 466-475.  | 3.3  | 49        |
| 26 | Coordination-Driven Self-Assembly and Anticancer Potency Studies of Arene-Ruthenium-Based Molecular Metalla-Rectangles. <i>Organometallics</i> , 2014, 33, 1144-1151.  | 2.3  | 46        |
| 27 | Coordination-Driven Self-Assembly of Truncated Tetrahedra Capable of Encapsulating 1,3,5-Triphenylbenzene. <i>Inorganic Chemistry</i> , 2010, 49, 10238-10240.   | 4.0  | 43        |
| 28 | Synthesis and Reactions of Ethynylferrocene-Derived Fluoro- and Chlorocyclotriphosphazenes. <i>Inorganic Chemistry</i> , 2010, 49, 5753-5765.  | 4.0  | 42        |
| 29 | Self-Assembled Supramolecular Heterobimetallics for Anticancer Potency by Intracellular Release. <i>Chemistry - A European Journal</i> , 2014, 20, 14410-14420.  | 3.3  | 42        |
| 30 | Coordination-Driven Self-Assembly and Anticancer Potency Studies of Ruthenium-Cobalt-Based Heterometallic Rectangles. <i>Chemistry - A European Journal</i> , 2016, 22, 16157-16164.   | 3.3  | 41        |
| 31 | A new arene-Ru based supramolecular coordination complex for efficient binding and selective sensing of green fluorescent protein. <i>Dalton Transactions</i> , 2014, 43, 6032-6040.   | 3.3  | 37        |
| 32 | Catalytic Intramolecular Cycloaddition Reactions by Using a Discrete Molecular Architecture. <i>Chemistry - A European Journal</i> , 2017, 23, 15704-15712.  | 3.3  | 35        |
| 33 | The First Quantitative Synthesis of a Closed Three-Link Chain (6 <sub>1</sub> <sup>3</sup> ) Using Coordination and Noncovalent Interactions-Driven Self-Assembly. <i>Journal of the American Chemical Society</i> , 2020, 142, 9327-9336. | 13.7 | 35        |
| 34 | Synthesis of Chlorinated Bicyclic C-Fused Tetrahydrofuro[3,2- <i>c</i> ]azetidin-2-ones. <i>Journal of Organic Chemistry</i> , 2010, 75, 7408-7411.  | 3.2  | 31        |
| 35 | Selective synthesis of iridium( <sup>III</sup> )-derived molecular Borromean rings, [2]catenane and ring-in-ring macrocycles via coordination-driven self-assembly. <i>Dalton Transactions</i> , 2017, 46, 571-577.                        | 3.3  | 31        |
| 36 | Synthesis and Characterization of Self-Assembled Nanoscopic Metallarectangles Capable of Binding Fullerenes with Size-Selective Responses. <i>Inorganic Chemistry</i> , 2013, 52, 8573-8578.   | 4.0  | 29        |

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|----|---|------|-----------|
| 37 | Coordination-Driven Self-Assembly Using Ditopic Pyridyl-Pyrazolyl Donor and <i>p</i> -Cymene Ru(II) Acceptors: [2]Catenane Synthesis and Anticancer Activities. <i>Inorganic Chemistry</i> , 2017, 56, 8430-8438.   | 4.0  | 29        |
| 38 | Template-Free Synthesis of a Molecular Solomon Link by Two-Component Self-Assembly. <i>Angewandte Chemie</i> , 2016, 128, 2047-2051.  | 2.0  | 26        |
| 39 | Chemistry of the highly stable hindered cobalt sandwich compound ( $\eta^5$ -Cp)Co( $\eta^4$ -C <sub>4</sub> Ph <sub>4</sub> ) and its derivatives. <i>Coordination Chemistry Reviews</i> , 2016, 306, 115-170.   | 18.8 | 26        |
| 40 | Antitumor and biological investigation of doubly cyclometalated ruthenium( $\kappa^2$ ) organometallics derived from benzimidazolyl derivatives. <i>Dalton Transactions</i> , 2016, 45, 6667-6673.  | 3.3  | 25        |
| 41 | Palladacycles of novel bisoxazoline chelating ligands based on the dimeric cyclobutadiene linked cobalt sandwich compound [ $\eta^5$ -Cp)Co( $\eta^4$ -C <sub>4</sub> Ph <sub>3</sub> ) <sub>2</sub> . <i>Dalton Transactions</i> , 2011, 40, 4882.   | 3.3  | 23        |
| 42 | Synthesis, reactivity and structural studies of ( $\eta^5$ -methylcyclopentadienyl)( $\eta^4$ -tetraphenylcyclobutadiene)cobalt and its derivatives. <i>Journal of Organometallic Chemistry</i> , 2008, 693, 3780-3786.   | 1.8  | 22        |
| 43 | Coordination-Driven Self-Assembly of a Molecular Knot Comprising Sixteen Crossings. <i>Angewandte Chemie</i> , 2018, 130, 5771-5775.  | 2.0  | 19        |
| 44 | Selective and quantitative synthesis of a linear [3]catenane by two component coordination-driven self-assembly. <i>Chemical Communications</i> , 2019, 55, 6866-6869.  | 4.1  | 18        |
| 45 | Self-assembly of new arene-ruthenium rectangles containing triptycene building block and their application in fluorescent detection of nitro aromatics. <i>Inorganica Chimica Acta</i> , 2014, 423, 326-331.  | 2.4  | 17        |
| 46 | Protecting group directed diversity during Mitsunobu cyclization of a carbohydrate derived diamino triol. Synthesis of novel bridged bicyclic and six-membered iminocyclitols. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 599-611.   | 2.8  | 16        |
| 47 | Highly regioselective and sustainable solar click reaction: a new post-synthetic modified triazole organic polymer as a recyclable photocatalyst for regioselective azide-alkyne cycloaddition reaction. <i>Green Chemistry</i> , 2019, 21, 2677-2685.  | 9.0  | 15        |
| 48 | Coordination-Driven Self-Assembly of Heterotrimetallic Barrel and Bimetallic Cages Using a Cobalt Sandwich-Based Tetratopic Donor. <i>Inorganic Chemistry</i> , 2018, 57, 3521-3528.  | 4.0  | 14        |
| 49 | Cyclopentadienyl 1,2- and 1,3-Disubstituted Cobalt Sandwich Compounds [ $\eta^5$ -[MeOC(O)] <sub>2</sub> C <sub>5</sub> H <sub>3</sub> ]Co( $\eta^4$ -C <sub>4</sub> Ph <sub>4</sub> ): Precursors for Sterically Hindered Bidentate Chiral and Achiral Ligands. <i>Organometallics</i> , 2012, 31, 2059-2065.  | 2.3  | 12        |
| 50 | Reactions of Alkyne- and Butadiyne-Derived Fluorinated Cyclophosphazenes with Diiron and Dimolybdenum Carbonyls. <i>Inorganic Chemistry</i> , 2014, 53, 10674-10684.  | 4.0  | 11        |
| 51 | Synthesis and reactions of new 1,2- and 1,3-cyclopentadienyl disubstituted cobalt sandwich compounds ( $\eta^5$ -C <sub>5</sub> H <sub>3</sub> R <sub>2</sub> )Co( $\eta^4$ -C <sub>4</sub> Ph <sub>4</sub> ) (R CH <sub>2</sub> OH, CHO, C <sub>6</sub> H <sub>5</sub> , CH <sub>2</sub> N <sub>3</sub> , CH <sub>2</sub> NH <sub>2</sub> , CH <sub>2</sub> OAc, CH <sub>2</sub> NPh). <i>Journal of Organometallic Chemistry</i> , 2012, 717, 99-107. | 1.8  | 10        |
| 52 | Isomeric sp <sup>2</sup> -C-conjugated porous organic polymer-mediated photo- and sono-catalytic detoxification of sulfur mustard simulant under ambient conditions. <i>Matter</i> , 2021, 4, 3774-3785.  | 10.0 | 10        |
| 53 | New Chiral Palladacycles from an Unprecedented Cyclopalladation of Cyclobutadiene-Bound Phenyl Groups of Cobalt Sandwich Compounds. <i>Organometallics</i> , 2014, 33, 1044-1052.   | 2.3  | 9         |
| 54 | Anticancer activities of self-assembled molecular bowls containing a phenanthrene-based donor and Ru(II) acceptors. <i>International Journal of Nanomedicine</i> , 2015, 10 Spec Iss, 143.  | 6.7  | 9         |

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|----|---|-----|-----------|
| 55 | Identification and characterization of intermediates in the formation of the cyclobutadiene linked dimeric cobalt sandwich compound [ $(\eta^5\text{-RCp})(\eta^4\text{-C}_4\text{Ph}_3)_2[\text{R}=\text{H, CH}_3\text{C(O)O}]$ ]. Journal of Chemical Sciences, 2011, 123, 853-860. | 1.5 | 8         |
| 56 | Non-Covalent Interaction-Directed Coordination-Driven Self-Assembly of Non-Trivial Supramolecular Topologies. Chemical Record, 2021, 21, 574-593.   | 5.8 | 8         |
| 57 | Synthesis and structural characterization of the first examples of butadiynyl derived cyclic fluorinated phosphazenes. Journal of Fluorine Chemistry, 2013, 153, 48-56.   | 1.7 | 6         |
| 58 | Synthesis and characterization of difunctionalized derivatives of the cyclobutadiene linked dimeric cobalt sandwich compound [ $(\eta^5\text{-Cp})(\eta^4\text{-C}_4\text{Ph}_3)_2$ ]. Journal of Organometallic Chemistry, 2012, 716, 208-215.                                       | 1.8 | 5         |
| 59 | Coordination-driven self-assembly and anticancer studies of thiophene-derived donor and arene ruthenium acceptors. Inorganica Chimica Acta, 2018, 482, 179-186.   | 2.4 | 5         |
| 60 | Flexible ligated ruthenium(II) self-assemblies sensitizes glioma tumor initiating cells <i>in vitro</i> . Oncotarget, 2017, 8, 60188-60200.   | 1.8 | 4         |
| 61 | Coordination-Driven Self-Assembly of Triazole-Based Apoptosis-Inducible Metallomacrocycles. ACS Omega, 2019, 4, 10810-10817.  | 3.5 | 4         |
| 62 | New Self-assembled Supramolecular Bowls as Potent Anticancer Agents for Human Hepatocellular Carcinoma. Scientific Reports, 2019, 9, 242.   | 3.3 | 4         |