

# Gurjaspreet Singh

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

1,537  
citations

304743

22  
h-index

414414

32  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1103  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalized organosilanes and their magnetic nanoparticles as receptor for Sn (II) ions detection and potent antioxidants. Journal of Molecular Structure, 2022, 1247, 131297.	3.6	16
2	Design and synthesis of 4-aminoantipyrine appended triazole linked bis-organosilane and their silica nanoparticles for selective recognition of Fe <sup>3+</sup> ions. Journal of Molecular Structure, 2022, 1250, 131766.	3.6	4
3	Click generated o-Cresolphthalein linked 1,2,3-triazole derivative for selective Pb(II) ion recognition. Journal of Molecular Structure, 2022, 1251, 131985.	3.6	6
4	Tetrazole conjoined organosilane and organosilatranes via the “click approach”: a potent <i>Mycobacterium tuberculosis</i> enoyl ACP reductase inhibitor and a dual sensor for Fe( <sup>iii</sup> ) and Cu( <sup>ii</sup> ) ions. New Journal of Chemistry, 2022, 46, 2094-2104.	2.8	12
5	Chalcone appended Organosilanes and their silica nanoparticles based UV-vis and fluorometric probes for Co <sup>2+</sup> ions detection. Inorganica Chimica Acta, 2022, 535, 120827.	2.4	10
6	Pyrazinederived 1,2,3-triazole linked silanes and their magnetic nanoparticles for the colorimetric and fluorimetric dual sensing of Cu <sup>2+</sup> ions. Journal of Molecular Structure, 2022, 1259, 132512.	3.6	4
7	New energy harvesting using conjugated chalconyl-organosiloxyl framework. Materials Chemistry and Physics, 2022, 279, 125751.	4.0	0
8	Designing of thiosemicarbazone-triazole linked organotriethoxysilane as UV-Visible and fluorescence sensor for the selective detection of Hg <sup>2+</sup> ions and their cytotoxic evaluation. Journal of Molecular Structure, 2022, 1255, 132446.	3.6	11
9	1-Adamantanamine-based triazole-appended organosilanes as chromogenic “naked-eye” and fluorogenic “turn-on” sensors for the highly selective detection of Sn <sup>2+</sup> ions. New Journal of Chemistry, 2022, 46, 7055-7069.	2.8	4
10	Pyridine derived organosilatrane and their silica nanoparticles as “Turn-on” fluorescence sensor for selective detection of Zn <sup>2+</sup> ions and their cytotoxicity evaluation. Inorganica Chimica Acta, 2022, 537, 120926.	2.4	7
11	Development of 3-Acetylcoumarin derived organosilane as potent antioxidant: Selective and sensitive colorimetric and fluorescent sensor for Al <sup>3+</sup> ions. Inorganica Chimica Acta, 2022, 537, 120921.	2.4	2
12	Benzothiazole tethered triazole based potential antibacterial agent as a selective fluorometric probe for the detection of Al <sup>3+</sup> ions and phenylalanine. Journal of Molecular Structure, 2022, 1262, 132967.	3.6	14
13	Graphene oxide functionalized organosilane based fluorescent biosensor for detecting guanine in human urine. Materials Chemistry and Physics, 2022, 287, 126130.	4.0	3
14	Pyrazolyl-Imidazole clubbed 1,2,3-triazoles: Synthesis, structure explication and antimicrobial evaluation. Journal of Molecular Structure, 2022, 1262, 133060.	3.6	8
15	Copper (I)-catalyzed “Quick Click” generated 1,2,3-triazole anthraquinone linkers for selective detection of Fe (II) ions. Inorganic Chemistry Communication, 2022, 141, 109524.	3.9	5
16	Thiosemicarbazone-triazole bearing siloxy framework for the detection of Hg <sup>2+</sup> and Cu <sup>2+</sup> ions and their potent cytotoxic activity. Inorganica Chimica Acta, 2022, 542, 121087.	2.4	1
17	Synthesis, Characterization, Hydrolytic Stability, Nickel( <sup>II</sup> ) Chloride Complex and Anti-Parasitic Activity of Pyrene-Tethered Silatrane. Polycyclic Aromatic Compounds, 2021, 41, 173-183.	2.6	2
18	Schiff base derived bis-organosilanes: Immobilization on silica nanosphere and Cu <sup>2+</sup> and Fe <sup>3+</sup> dual ion sensing. Inorganica Chimica Acta, 2021, 514, 120028.	2.4	26

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19	Propargyl-functionalized single arm allied Anthracene based Schiff bases: Crystal structure, solvatochromism and selective recognition of Fe <sup>3+</sup> ion. Journal of Molecular Structure, 2021, 1229, 129618.	3.6	8
20	Triazole Containing Salicylimine Linked Organosiloxane for Recognition of Ce <sup>3+</sup> Ions in Aqueous Media. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 997-1005.	3.7	4
21	Design, synthesis and photophysical aspects of 1,2,3-triazole appended Schiff base functionalized silanes and silatranes. New Journal of Chemistry, 2021, 45, 17356-17365.	2.8	10
22	Organosilanes and their magnetic nanoparticles as naked eye red emissive sensors for Ag <sup>+</sup> ions and potent anti-oxidants. New Journal of Chemistry, 2021, 45, 5517-5525.	2.8	26
23	Benzothiazole Encapped Silane and Its Nano Composites for Sequential Detection of Copper Ions and Cysteine in Aqueous Solution. ChemistrySelect, 2021, 6, 2281-2287.	1.5	3
24	Robust and Versatile Cu(I) metal frameworks as potential catalysts for azide-alkyne cycloaddition reactions: Review. Molecular Catalysis, 2021, 504, 111432.	2.0	27
25	Bis-triazole with indole pendant Organosilicon framework: Probe for recognition of Pb <sup>2+</sup> ions. Journal of Molecular Structure, 2021, 1231, 129963.	3.6	6
26	Metals as "Click" catalysts for alkyne-azide cycloaddition reactions: An overview. Journal of Organometallic Chemistry, 2021, 944, 121846.	1.8	33
27	Synthesis and Characterization of Antioxidant Biphenyl Appended 1,2,3-Triazoles as Potential Chemo-Sensor for Sn <sup>2+</sup> Ions: Excellent Selectivity and Low Detection Limit. ChemistrySelect, 2021, 6, 7613-7621.	1.5	13
28	Synthesis, characterization and UV-visible study of schiff base-acetylene functionalized organosilatrane receptor for the dual detection of Zn <sup>2+</sup> and Co <sup>2+</sup> ions. Inorganica Chimica Acta, 2021, 525, 120465.	2.4	13
29	Anthracene-Based Triazolyl Triethoxysilanes as Selective and Colorimetric Sensor for Cysteine: Rationalization towards Stability Factors, Therapeutics Evaluation and Molecular Docking. ChemistrySelect, 2021, 6, 8899-8911.	1.5	3
30	"Click" CuAAC™ Chemistry for Hg(II) and Mn(II) ion sensing via 9H-carbazole derivatives. Inorganica Chimica Acta, 2021, 527, 120560.	2.4	10
31	Design of pyrene functionalized triazole linked organosilane for specific detection of Ce <sup>3+</sup> ions. Journal of Molecular Structure, 2021, 1243, 130787.	3.6	3
32	Designing of chalcone functionalized 1,2,3-triazole allied bis-organosilanes as potent antioxidants and optical sensor for recognition of Sn <sup>2+</sup> and Hg <sup>2+</sup> ions. Journal of Organometallic Chemistry, 2021, 953, 122049.	1.8	8
33	Colorimetric detection of Fe <sup>3+</sup> ions using Schiff base-chalcone functionalized bis(1,2,3-triazolyl- $\beta$ -propyltriethoxysilanes). Inorganica Chimica Acta, 2021, 527, 120576.	2.4	3
34	A quick microwave preparation of isatin hydrazone schiff base conjugated organosilicon compounds: Exploration of their antibacterial, antifungal, and antioxidative potentials. Journal of Organometallic Chemistry, 2021, 953, 122051.	1.8	16
35	Organosilanes: Synthesis and modification to magnetic silica nanoparticles for recognition of Hg (II) ions. Inorganica Chimica Acta, 2021, 528, 120591.	2.4	13
36	Schiff base-functionalized silatrane-based receptor as a potential chemo-sensor for the detection of Al <sup>3+</sup> ions. New Journal of Chemistry, 2021, 45, 7850-7859.	2.8	36

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37	The first report of X-ray characterized organosilatrane-based receptors for the electrochemical analysis of $\text{Al}^{3+}$ ions. New Journal of Chemistry, 2021, 45, 16083-16091.	2.8	2
38	A veratraldehyde-appended organosilicon probe and its hybrid silica nanoparticles as a dual chemosensor for colorimetric and fluorimetric detection of $\text{Cu}^{2+}$ and $\text{Fe}^{3+}$ ions. New Journal of Chemistry, 2021, 46, 370-384.	2.8	4
39	Design, crystal structures and sustainable synthesis of family of antipyrine derivatives: Abolish to bacterial and parasitic infection. Journal of Molecular Structure, 2020, 1199, 127010.	3.6	7
40	Clickâ€Derived Uracilâ€Appended Organosilatranyl Scaffolds: Synthesis, Antibacterial Characteristics, $\text{Pb}^{2+}$ Binding and Fabrication of Hybrid Silica Nanoparticles. ChemistrySelect, 2020, 5, 284-292.	1.5	1
41	Polycyclic aromatic hydrocarbon functionalized organosilicones based chemosensors: Synthesis, magnetic nanoparticles and biological application. Journal of Molecular Structure, 2020, 1221, 128811.	3.6	4
42	Bis-Organosilicon based receptor for detection of $\text{Hg}^{2+}$ ions: Low detection limit and excellent selectivity. Journal of Organometallic Chemistry, 2020, 923, 121458.	1.8	5
43	First Report on the Synthesis of Antipyrine Crowned Siloxy Framework: Optical Recognition of $\text{Fe}^{2+}$ and $\text{Hg}^{2+}$ Ions. ChemistrySelect, 2020, 5, 8823-8830.	1.5	8
44	Synthesis and X-ray characterization of antipyrine-tethered organosilanes and their magnetic nanoparticles: potent anti-oxidants and receptors for $\text{Sn}^{2+}$ ions. New Journal of Chemistry, 2020, 44, 15157-15168.	2.8	9
45	Synthesis of organosilicon allied <i>N</i> -heteroaryl Schiff base chemosensor for the detection of $\text{Cu}^{2+}$ metal ions and their biological applications. New Journal of Chemistry, 2020, 44, 13542-13552.	2.8	9
46	Design and Synthesis of Heterocyclic Encapsulated Organosilatrane for In Silico, In Vitro Antioxidant and Cytotoxicity Evaluation. ChemistrySelect, 2020, 5, 15055-15060.	1.5	0
47	Azo dye featuring triazole appended organosilicon multifunctionalized sensor: Paradigm for detection of $\text{Cu}^{2+}$ and $\text{Fe}^{2+}$ ions. Materials Chemistry and Physics, 2020, 249, 123005.	4.0	20
48	Designing the recognition of $\text{Sn}^{2+}$ ions and antioxidants: N-heterocyclic organosilatrane and their magnetic nanocomposites. New Journal of Chemistry, 2020, 44, 6238-6250.	2.8	16
49	New pyrimidine based organosilicon compounds as receptor for selective recognition of $\text{Cu}^{2+}$ ions. Journal of Molecular Structure, 2020, 1216, 128220.	3.6	5
50	CuAAC-enssembled 1,2,3-triazole-linked isosteres as pharmacophores in drug discovery: review. RSC Advances, 2020, 10, 5610-5635.	3.6	178
51	2,5-Dimercapto-1,3,4-Thiadiazole Tethered $\beta$ -Propylsilatrane: Syntheses, Characterization, UV-Vis and Electrochemical Studies. Silicon, 2019, 11, 2583-2589.	3.3	1
52	Synthesis and characterization of microwaveâ€assisted biologically active triazole silanes. Applied Organometallic Chemistry, 2019, 33, e4695.	3.5	6
53	First report of silver ion recognition <i>via</i> a silatrane-based receptor: excellent selectivity, low detection limit and good applicability. New Journal of Chemistry, 2019, 43, 5525-5530.	2.8	23
54	Ester appended organosilatrane: Paradigm for the detection of $\text{Cu}^{2+}$ , $\text{Pb}^{2+}$ and $\text{Hg}^{2+}$ ion. Inorganica Chimica Acta, 2019, 490, 85-92.	2.4	8

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55	2,5-Dimercapto-1,3,4-Thiadiazole Tethered $\text{I}^3$ -Propylsilatrane: Syntheses, Characterization, UV-Vis and Electrochemical Studies. <i>Silicon</i> , 2019, 11, 2575-2582.	3.3	1
56	A strategic approach to the synthesis of ferrocene appended chalcone linked triazole allied organosilatrane: Antibacterial, antifungal, antiparasitic and antioxidant studies. <i>Bioorganic and Medicinal Chemistry</i> , 2019, 27, 188-195.	3.0	47
57	Acetylenic Indole-Encapsulated Schiff Bases: Synthesis, In Silico Studies as Potent Antimicrobial Agents, Cytotoxic Evaluation and Synergistic Effects. <i>ChemistrySelect</i> , 2018, 3, 2366-2375.	1.5	8
58	Schiff Based Silatranyl Compounds Exhibiting $\text{Fe}^{3+}$ and $\text{Mn}^{2+}$ Fluorescence Dual Ion Sensing and Antibacterial Activity. <i>Silicon</i> , 2018, 10, 2817-2827.	3.3	1
59	Role of alkyl silatrane as plant growth regulators: comparative substitution effect on root and shoot development of wheat and maize. <i>Journal of the Science of Food and Agriculture</i> , 2018, 98, 5129-5133.	3.5	10
60	Synthesis and structural characterization of first adenine containing organosilicon nucleobase for the recognition of $\text{Cu}^{2+}$ ion. <i>Inorganica Chimica Acta</i> , 2018, 479, 74-82.	2.4	8
61	Synthesis and Immobilization of Benzothiazole-Appended Triazole-Silane: Biological Evaluation and Molecular Docking Approach. <i>ChemistrySelect</i> , 2018, 3, 1609-1614.	1.5	5
62	Molecular Design, Synthesis, Computational Screening, Antimicrobial Evaluation and Molecular Docking Study of Acetylinic Isatin Hybrids. <i>ChemistrySelect</i> , 2018, 3, 1942-1952.	1.5	11
63	Design and synthesis of indole triazole pendant siloxy framework as a chemo sensor for sensing of $\text{Cu}^{2+}$ and $\text{Ni}^{2+}$ : A comparison between traditional and microwave method. <i>Inorganica Chimica Acta</i> , 2018, 473, 186-193.	2.4	17
64	Photochemical tuning of materials: A click chemistry perspective. <i>Materials Today Chemistry</i> , 2018, 8, 56-84.	3.5	49
65	Coumarin-derived Organosilatrane: Functionalization at magnetic silica surface and selective recognition of $\text{Hg}^{2+}$ ion. <i>Sensors and Actuators B: Chemical</i> , 2018, 266, 861-872.	7.8	27
66	Selective mercury ion recognition using a methyl red (MR) based silatrane sensor. <i>New Journal of Chemistry</i> , 2018, 42, 6315-6321.	2.8	11
67	An expedient "click" approach for the synthetic evaluation of ester-triazole-tethered organosilica conjugates. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4028.	3.5	2
68	Progressions in hypercoordinate silicon complexes. <i>Inorganic Chemistry Communication</i> , 2018, 88, 11-20.	3.9	30
69	Molecular keypad controlled circuit for $\text{Ce}(\text{III})$ and $\text{NO}_3^-$ ions recognition by $\text{I}^3/\text{w}$ synthesized silicon-embedded organic luminescent sensor. <i>RSC Advances</i> , 2018, 8, 36445-36452.	3.6	12
70	Chalcone scaffolds as photofunctional hybrid material of indolin-2-one-functionalized siloxy framework for optical sensing of $\text{Cu}^{2+}$ . <i>New Journal of Chemistry</i> , 2018, 42, 16902-16910.	2.8	11
71	Synthesis, characterization and antibacterial studies of schiff based 1,2,3-triazole bridged silatrane. <i>Journal of Organometallic Chemistry</i> , 2018, 871, 21-27.	1.8	25
72	The first report of the synthesis of organo-functionalized triethoxysilanes via a Knoevenagel condensation approach. <i>New Journal of Chemistry</i> , 2018, 42, 12467-12471.	2.8	3

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73	Unsymmetrically urea silatranes: Synthesis, characterization and a selective on/off fluorescence response to acetate anion. <i>Arabian Journal of Chemistry</i> , 2017, 10, 523-531.	4.9	4
74	A proficient magnetic nano-platform with covalently assembled methyl red indicator for the dual recognition of pH and Hg <sup>2+</sup> . <i>Sensors and Actuators B: Chemical</i> , 2017, 244, 861-875.	7.8	21
75	A family of silatrane-armed triazole-encapped salicylaldehyde-derived Schiff bases: Synthesis, spectral analysis, and antimicrobial and quantum chemical evaluation. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3728.	3.5	12
76	A Click-Generated Triethoxysilane Tethered Ferrocene-Chalcone-Triazole Triad for Selective and Colorimetric Detection of Cu <sup>2+</sup> Ions. <i>ChemistrySelect</i> , 2017, 2, 3637-3647.	1.5	16
77	Organic-inorganic nano-hybrid decorated by copper (II) incarceration: A versatile catalytic assembly for the swift reduction of aromatic nitro and dye compounds. <i>Molecular Catalysis</i> , 2017, 431, 15-26.	2.0	21
78	First synthesis of pyrene-functionalized silatranes for mechanistic insights into their potential anti-parasitic and anti-oxidation activities. <i>New Journal of Chemistry</i> , 2017, 41, 15165-15172.	2.8	16
79	Adamantylated organosilatranes: design, synthesis, and potential appraisal in surface modification and anti-protozoal activity. <i>New Journal of Chemistry</i> , 2017, 41, 11626-11639.	2.8	9
80	Fabrication of silicon embedded isomeric chalcone linkers using [CuBr(PPh <sub>3</sub> ) <sub>3</sub> ]. <i>Polyhedron</i> , 2017, 125, 93-100.	2.2	5
81	Synthesis, characterization and reactivity study of ethoxytriisothiocyanatosilane. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
82	Organosilatranes with Acylthiourea Derivatives – Metal-Ion Binding, Substituent-Dependent Sensitivity, and Prospects for the Fabrication of Magnetic Hybrids. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3000-3011.	2.0	13
83	Substituted phenyl urea and thiourea silatranes: Synthesis, characterization and anion recognition properties by photophysical and theoretical studies. <i>Polyhedron</i> , 2016, 112, 51-60.	2.2	8
84	Thioester-appended organosilatranes: synthetic investigations and application in the modification of magnetic silica surfaces. <i>New Journal of Chemistry</i> , 2016, 40, 6200-6213.	2.8	15
85	Heteroaryl chalcone allied triazole conjugated organosilatranes: synthesis, spectral analysis, antimicrobial screening, photophysical and theoretical investigations. <i>RSC Advances</i> , 2016, 6, 82057-82081.	3.6	11
86	Organo-functionalized trimethoxysilanes featuring thioester linkage: Synthetic and UV-Vis spectral investigations. <i>Journal of Organometallic Chemistry</i> , 2016, 808, 1-11.	1.8	4
87	Schiff base functionalized Organopropylsilatranes: Synthesis and structural characterization. <i>Journal of Chemical Sciences</i> , 2016, 128, 193-200.	1.5	4
88	Design, synthesis and biological evaluation of chalconyl blended triazole allied organosilatranes as giardicidal and trichomonacidal agents. <i>European Journal of Medicinal Chemistry</i> , 2016, 108, 287-300.	5.5	47
89	Incorporation of azo group at axial position of silatranes: synthesis, characterization and antimicrobial activity. <i>Applied Organometallic Chemistry</i> , 2015, 29, 549-555.	3.5	16
90	Amide-tethered organosilatranes: Syntheses, structural characterization and photophysical properties. <i>Inorganica Chimica Acta</i> , 2015, 433, 78-91.	2.4	20

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91	Synthesis, characterization, electronic absorption and antimicrobial studies of N-(silatranylpropyl)phthalimide derived from phthalic anhydride. <i>Inorganica Chimica Acta</i> , 2015, 427, 232-239.	2.4	30
92	Chalcomer assembly of optical chemosensors for selective Cu <sup>2+</sup> and Ni <sup>2+</sup> ion recognition. <i>RSC Advances</i> , 2015, 5, 12644-12654.	3.6	29
93	Design of selective 8-methylquinolinol based ratiometric Fe <sup>2+</sup> and Fe <sup>3+</sup> /H <sub>2</sub> PO <sub>4</sub> <sup>2-</sup> fluorescent chemosensor mimicking NOR and IMPLICATION logic gates. <i>Journal of Luminescence</i> , 2015, 165, 123-129.	3.1	28
94	Organosilatrane with thioester-anchored heterocyclic ring assembly: Cu <sup>2+</sup> ion binding and fabrication of hybrid silica nanoparticles. <i>RSC Advances</i> , 2015, 5, 65963-65974.	3.6	21
95	Synthetic investigations and photo-physical properties of 1,2,3-triazole encapped chalconyl substituted organotriethoxysilanes. <i>Journal of Organometallic Chemistry</i> , 2015, 777, 6-15.	1.8	8
96	Synthesis and characterization of modified Schiff base silatrane (MSBS) via <i>Click Silylation</i> <sup>TM</sup> . <i>Journal of Molecular Structure</i> , 2015, 1079, 173-181.	3.6	26
97	Synthesis of polyfunctional triethoxysilanes by <i>click silylation</i> <sup>TM</sup> . <i>Tetrahedron Letters</i> , 2014, 55, 903-909.	1.4	37
98	Synthetic approach towards <i>click</i> <sup>TM</sup> modified chalcone based organotriethoxysilanes; UV-Vis study. <i>RSC Advances</i> , 2014, 4, 60853-60865.	3.6	22
99	Design and syntheses of novel fluorescent organosilicon-based chemosensors through click silylation: detection of biogenic amines. <i>RSC Advances</i> , 2014, 4, 36834-36844.	3.6	38
100	Synthesis of novel 1,2,3-triazole based silatrane via <i>click silylation</i> <sup>TM</sup> . <i>Journal of Organometallic Chemistry</i> , 2014, 769, 124-129.	1.8	27
101	1,3-Diazolyl functionalized organopropylsilatrane: Synthesis and structural characterization. <i>Inorganica Chimica Acta</i> , 2014, 413, 203-207.	2.4	16
102	Three-step pathway towards bis(1,2,3-triazolyl)-propylsilatrane as Cu <sup>2+</sup> fluorescent sensor, via <i>Click Silylation</i> <sup>TM</sup> . <i>Tetrahedron Letters</i> , 2014, 55, 2551-2558.	1.4	30
103	1-Isothiocyanatosilatrane derived from tris(isopropanol)amine: Synthesis, characterization, reactivity and theoretical studies. <i>Journal of Organometallic Chemistry</i> , 2012, 719, 21-25.	1.8	29