

# Gurjaspreet Singh

## List of Publications by Year in descending order

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103  
papers

1,537  
citations

304368

22  
h-index

414034

32  
g-index

104  
all docs

104  
docs citations

104  
times ranked

1103  
citing authors

#	ARTICLE	IF	CITATIONS
1	CuAAC-enssembled 1,2,3-triazole-linked isosteres as pharmacophores in drug discovery: review. RSC Advances, 2020, 10, 5610-5635.	1.7	178
2	Photochemical tuning of materials: A click chemistry perspective. Materials Today Chemistry, 2018, 8, 56-84.	1.7	49
3	Design, synthesis and biological evaluation of chalconyl blended triazole allied organosilatrane as giardicidal and trichomonacidal agents. European Journal of Medicinal Chemistry, 2016, 108, 287-300.	2.6	47
4	A strategic approach to the synthesis of ferrocene appended chalcone linked triazole allied organosilatrane: Antibacterial, antifungal, antiparasitic and antioxidant studies. Bioorganic and Medicinal Chemistry, 2019, 27, 188-195.	1.4	47
5	Design and syntheses of novel fluorescent organosilicon-based chemosensors through click silylation: detection of biogenic amines. RSC Advances, 2014, 4, 36834-36844.	1.7	38
6	Synthesis of polyfunctional triethoxysilanes by "click silylation". Tetrahedron Letters, 2014, 55, 903-909.	0.7	37
7	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.	1.4	36
8	Metals as "Click" catalysts for alkyne-azide cycloaddition reactions: An overview. Journal of Organometallic Chemistry, 2021, 944, 121846.	0.8	33
9	Three-step pathway towards bis(1,2,3-triazolyl- $\beta$ -propyl)silatrane as Cu <sup>2+</sup> fluorescent sensor, via "Click Silylation". Tetrahedron Letters, 2014, 55, 2551-2558.	0.7	30
10	Synthesis, characterization, electronic absorption and antimicrobial studies of N-(silatranylpropyl)phthalimide derived from phthalic anhydride. Inorganica Chimica Acta, 2015, 427, 232-239.	1.2	30
11	Progressions in hypercoordinate silicon complexes. Inorganic Chemistry Communication, 2018, 88, 11-20.	1.8	30
12	1-Isothiocyanatosilatrane derived from tris(isopropanol)amine: Synthesis, characterization, reactivity and theoretical studies. Journal of Organometallic Chemistry, 2012, 719, 21-25.	0.8	29
13	Chalcone assembly of optical chemosensors for selective Cu <sup>2+</sup> and Ni <sup>2+</sup> ion recognition. RSC Advances, 2015, 5, 12644-12654.	1.7	29
14	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>-</sup> fluorescent chemosensor mimicking NOR and IMPLICATION logic gates. Journal of Luminescence, 2015, 165, 123-129.	1.5	28
15	Synthesis of novel 1,2,3-triazole based silatrane via "click silylation". Journal of Organometallic Chemistry, 2014, 769, 124-129.	0.8	27
16	Coumarin-derived Organosilatrane: Functionalization at magnetic silica surface and selective recognition of Hg <sup>2+</sup> ion. Sensors and Actuators B: Chemical, 2018, 266, 861-872.	4.0	27
17	Robust and Versatile Cu(I) metal frameworks as potential catalysts for azide-alkyne cycloaddition reactions: Review. Molecular Catalysis, 2021, 504, 111432.	1.0	27
18	Synthesis and characterization of modified Schiff base silatrane (MSBS) via "Click Silylation". Journal of Molecular Structure, 2015, 1079, 173-181.	1.8	26

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19	Schiff base derived bis-organosilanes: Immobilization on silica nanosphere and Cu <sup>2+</sup> and Fe <sup>3+</sup> dual ion sensing. <i>Inorganica Chimica Acta</i> , 2021, 514, 120028.	1.2	26
20	Organosilanes and their magnetic nanoparticles as naked eye red emissive sensors for Ag <sup>+</sup> ions and potent anti-oxidants. <i>New Journal of Chemistry</i> , 2021, 45, 5517-5525.	1.4	26
21	Synthesis, characterization and antibacterial studies of schiff based 1,2,3-triazole bridged silatranes. <i>Journal of Organometallic Chemistry</i> , 2018, 871, 21-27.	0.8	25
22	First report of silver ion recognition via a silatrane-based receptor: excellent selectivity, low detection limit and good applicability. <i>New Journal of Chemistry</i> , 2019, 43, 5525-5530.	1.4	23
23	Synthetic approach towards "click" modified chalcone based organotriethoxysilanes; UV-Vis study. <i>RSC Advances</i> , 2014, 4, 60853-60865.	1.7	22
24	Organosilatranes 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.	1.7	21
25	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.	4.0	21
26	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.	1.0	21
27	Amide-tethered organosilatranes: Syntheses, structural characterization and photophysical properties. <i>Inorganica Chimica Acta</i> , 2015, 433, 78-91.	1.2	20
28	Azo dye featuring triazole appended organosilicon multifunctionalized sensor: Paradigm for detection of Cu <sup>2+</sup> and Fe <sup>2+</sup> ions. <i>Materials Chemistry and Physics</i> , 2020, 249, 123005.	2.0	20
29	Design and synthesis of indole triazole pendant siloxy framework as a chemo sensor for sensing of Cu <sup>2+</sup> and Ni <sup>2+</sup> : A comparison between traditional and microwave method. <i>Inorganica Chimica Acta</i> , 2018, 473, 186-193.	1.2	17
30	1,3-Diazolyl functionalized organopropylsilatranes: Synthesis and structural characterization. <i>Inorganica Chimica Acta</i> , 2014, 413, 203-207.	1.2	16
31	Incorporation of azo group at axial position of silatranes: synthesis, characterization and antimicrobial activity. <i>Applied Organometallic Chemistry</i> , 2015, 29, 549-555.	1.7	16
32	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.	0.7	16
33	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.	1.4	16
34	Designing the recognition of Sn <sup>2+</sup> ions and antioxidants: N-heterocyclic organosilatranes and their magnetic nanocomposites. <i>New Journal of Chemistry</i> , 2020, 44, 6238-6250.	1.4	16
35	A quick microwave preparation of isatin hydrazone schiff base conjugated organosilicon compounds: Exploration of their antibacterial, antifungal, and antioxidative potentials. <i>Journal of Organometallic Chemistry</i> , 2021, 953, 122051.	0.8	16
36	Functionalized organosilanes and their magnetic nanoparticles as receptor for Sn (II) ions detection and potent antioxidants. <i>Journal of Molecular Structure</i> , 2022, 1247, 131297.	1.8	16

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37	Thioester-appended organosilatrane: synthetic investigations and application in the modification of magnetic silica surfaces. <i>New Journal of Chemistry</i> , 2016, 40, 6200-6213.	1.4	15
38	Benzothiazole tethered triazole based potential antibacterial agent as a selective fluorometric probe for the detection of Al <sup>3+</sup> ions and phenylalanine. <i>Journal of Molecular Structure</i> , 2022, 1262, 132967.	1.8	14
39	Organosilatrane 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.	1.0	13
40	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. <i>ChemistrySelect</i> , 2021, 6, 7613-7621.	0.7	13
41	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. <i>Inorganica Chimica Acta</i> , 2021, 525, 120465.	1.2	13
42	Organosilanes: Synthesis and modification to magnetic silica nanoparticles for recognition of Hg (II) ions. <i>Inorganica Chimica Acta</i> , 2021, 528, 120591.	1.2	13
43	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.	1.7	12
44	Molecular keypad controlled circuit for Ce(III) and NO <sub>3</sub> <sup>-</sup> ions recognition by 1/4w synthesized silicon-embedded organic luminescent sensor. <i>RSC Advances</i> , 2018, 8, 36445-36452.	1.7	12
45	Tetrazole conjoined organosilane and organosilatrane – the “click approach”: a potent <i>Mycobacterium tuberculosis</i> enoyl ACP reductase inhibitor and a dual sensor for Fe(III) and Cu(II) ions. <i>New Journal of Chemistry</i> , 2022, 46, 2094-2104.	1.4	12
46	Heteroaryl chalcone allied triazole conjugated organosilatrane: synthesis, spectral analysis, antimicrobial screening, photophysical and theoretical investigations. <i>RSC Advances</i> , 2016, 6, 82057-82081.	1.7	11
47	Molecular Design, Synthesis, Computational Screening, Antimicrobial Evaluation and Molecular Docking Study of Acetylinic Isatin Hybrids. <i>ChemistrySelect</i> , 2018, 3, 1942-1952.	0.7	11
48	Selective mercury ion recognition using a methyl red (MR) based silatrane sensor. <i>New Journal of Chemistry</i> , 2018, 42, 6315-6321.	1.4	11
49	Chalcone scaffolds as photofunctional hybrid material of indolin-2-one-functionalized siloxy framework for optical sensing of Cu <sup>2+</sup> . <i>New Journal of Chemistry</i> , 2018, 42, 16902-16910.	1.4	11
50	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. <i>Journal of Molecular Structure</i> , 2022, 1255, 132446.	1.8	11
51	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.	1.7	10
52	Design, synthesis and photophysical aspects of 1,2,3-triazole appended Schiff base functionalized silanes and silatrane. <i>New Journal of Chemistry</i> , 2021, 45, 17356-17365.	1.4	10
53	“Quick CuAAC” Chemistry for Hg(II) and Mn(II) ion sensing via 9H-carbazole derivatives. <i>Inorganica Chimica Acta</i> , 2021, 527, 120560.	1.2	10
54	Chalcone appended Organosilanes and their silica nanoparticles based UV-vis and fluorometric probes for Co <sup>2+</sup> ions detection. <i>Inorganica Chimica Acta</i> , 2022, 535, 120827.	1.2	10

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55	Adamantylated organosilatrane: design, synthesis, and potential appraisal in surface modification and anti-protozoal activity. <i>New Journal of Chemistry</i> , 2017, 41, 11626-11639.	1.4	9
56	Synthesis and X-ray characterization of antipyrine-tethered organosilanes and their magnetic nanoparticles: potent anti-oxidants and receptors for Sn(II) ions. <i>New Journal of Chemistry</i> , 2020, 44, 15157-15168.	1.4	9
57	Synthesis of organosilane allied N-heteroaryl Schiff base chemosensor for the detection of Cu <sup>2+</sup> metal ions and their biological applications. <i>New Journal of Chemistry</i> , 2020, 44, 13542-13552.	1.4	9
58	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.	0.8	8
59	Substituted phenyl urea and thiourea silatrane: Synthesis, characterization and anion recognition properties by photophysical and theoretical studies. <i>Polyhedron</i> , 2016, 112, 51-60.	1.0	8
60	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.	0.7	8
61	Synthesis and structural characterization of first adenine containing organosilicon nucleobase for the recognition of Cu <sup>2+</sup> ion. <i>Inorganica Chimica Acta</i> , 2018, 479, 74-82.	1.2	8
62	Ester appended organosilatrane: Paradigm for the detection of Cu <sup>2+</sup> , Pb <sup>2+</sup> and Hg <sup>2+</sup> ion. <i>Inorganica Chimica Acta</i> , 2019, 490, 85-92.	1.2	8
63	First Report on the Synthesis of Antipyrine Crowned Siloxy Framework: Optical Recognition of Fe <sup>2+</sup> and Hg <sup>2+</sup> ions. <i>ChemistrySelect</i> , 2020, 5, 8823-8830.	0.7	8
64	Propargyl-functionalized single arm allied Anthracene based Schiff bases: Crystal structure, solvatochromism and selective recognition of Fe <sup>3+</sup> ion. <i>Journal of Molecular Structure</i> , 2021, 1229, 129618.	1.8	8
65	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. <i>Journal of Organometallic Chemistry</i> , 2021, 953, 122049.	0.8	8
66	Pyrazolyl-Imidazole clubbed 1,2,3-triazoles: Synthesis, structure explication and antimicrobial evaluation. <i>Journal of Molecular Structure</i> , 2022, 1262, 133060.	1.8	8
67	Design, crystal structures and sustainable synthesis of family of antipyrine derivatives: Abolish to bacterial and parasitic infection. <i>Journal of Molecular Structure</i> , 2020, 1199, 127010.	1.8	7
68	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. <i>Inorganica Chimica Acta</i> , 2022, 537, 120926.	1.2	7
69	Synthesis and characterization of microwave-assisted biologically active triazole silanes. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4695.	1.7	6
70	Bis-triazole with indole pendant Organosilicon framework: Probe for recognition of Pb <sup>2+</sup> ions. <i>Journal of Molecular Structure</i> , 2021, 1231, 129963.	1.8	6
71	Click generated o-Cresolphthalein linked 1,2,3-triazole derivative for selective Pb(II) ion recognition. <i>Journal of Molecular Structure</i> , 2022, 1251, 131985.	1.8	6
72	Fabrication of silicon embedded isomeric chalcone linkers using [CuBr(PPh <sub>3</sub> ) <sub>3</sub> ]. <i>Polyhedron</i> , 2017, 125, 93-100.	1.0	5

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73	Synthesis and Immobilization of Benzothiazole-Appended Triazole-Silane: Biological Evaluation and Molecular Docking Approach. <i>ChemistrySelect</i> , 2018, 3, 1609-1614.	0.7	5
74	Bis-Organosilicon based receptor for detection of Hg <sup>2+</sup> ions: Low detection limit and excellent selectivity. <i>Journal of Organometallic Chemistry</i> , 2020, 923, 121458.	0.8	5
75	New pyrimidine based organosilicon compounds as receptor for selective recognition of Cu <sup>2+</sup> ions. <i>Journal of Molecular Structure</i> , 2020, 1216, 128220.	1.8	5
76	Copper (I)-catalyzed "Quick Click"™ generated 1,2,3-triazole anthraquinone linkers for selective detection of Fe (II) ions. <i>Inorganic Chemistry Communication</i> , 2022, 141, 109524.	1.8	5
77	Organo-functionalized trimethoxysilanes featuring thioester linkage: Synthetic and UV-Vis spectral investigations. <i>Journal of Organometallic Chemistry</i> , 2016, 808, 1-11.	0.8	4
78	Schiff base functionalized Organopropylsilatranes: Synthesis and structural characterization. <i>Journal of Chemical Sciences</i> , 2016, 128, 193-200.	0.7	4
79	Unsymmetrically urea silatranes: Synthesis, characterization and a selective "off" fluorescence response to acetate anion. <i>Arabian Journal of Chemistry</i> , 2017, 10, 523-531.	2.3	4
80	Polycyclic aromatic hydrocarbon functionalized organosilicones based chemosensors: Synthesis, magnetic nanoparticles and biological application. <i>Journal of Molecular Structure</i> , 2020, 1221, 128811.	1.8	4
81	Triazole Containing Salicylimine Linked Organosilicon for Recognition of Ce <sup>3+</sup> Ions in Aqueous Media. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2021, 31, 997-1005.	1.9	4
82	Design and synthesis of 4-aminoantipyrine appended triazole linked bis-organosilane and their silica nanoparticles for selective recognition of Fe <sup>3+</sup> ions. <i>Journal of Molecular Structure</i> , 2022, 1250, 131766.	1.8	4
83	A veratraldehyde-appended organosilicon probe and its hybrid silica nanoparticles as a dual chemosensor for colorimetric and fluorimetric detection of Cu <sup>2+</sup> and Fe <sup>3+</sup> ions. <i>New Journal of Chemistry</i> , 2021, 46, 370-384.	1.4	4
84	Pyrazinederived 1,2,3-triazole linked silanes and their magnetic nanoparticles for the colorimetric and fluorimetric dual sensing of Cu <sup>2+</sup> ions. <i>Journal of Molecular Structure</i> , 2022, 1259, 132512.	1.8	4
85	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. <i>New Journal of Chemistry</i> , 2022, 46, 7055-7069.	1.4	4
86	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.	1.4	3
87	Benzothiazole Encapped Silane and Its Nano Composites for Sequential Detection of Copper Ions and Cysteine in Aqueous Solution. <i>ChemistrySelect</i> , 2021, 6, 2281-2287.	0.7	3
88	Anthracene-Based Triazolyl Triethoxysilanes as Selective and Colorimetric Sensor for Cysteine: Rationalization towards Stability Factors, Therapeutics Evaluation and Molecular Docking. <i>ChemistrySelect</i> , 2021, 6, 8899-8911.	0.7	3
89	Design of pyrene functionalized triazole linked organosilane for specific detection of Ce <sup>3+</sup> ions. <i>Journal of Molecular Structure</i> , 2021, 1243, 130787.	1.8	3
90	Colorimetric detection of Fe <sup>3+</sup> ions using Schiff base-chalcone functionalized bis(1,2,3-triazolyl- $\beta$ -propyltriethoxysilanes). <i>Inorganica Chimica Acta</i> , 2021, 527, 120576.	1.2	3

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91	Graphene oxide functionalized organosilane based fluorescent biosensor for detecting guanine in human urine. <i>Materials Chemistry and Physics</i> , 2022, 287, 126130.	2.0	3
92	An expedient "click" approach for the synthetic evaluation of ester-triazole-tethered organosilica conjugates. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4028.	1.7	2
93	Synthesis, Characterization, Hydrolytic Stability, Nickel(II) Chloride Complex and Anti-Parasitic Activity of Pyrene-Tethered Silatranes. <i>Polycyclic Aromatic Compounds</i> , 2021, 41, 173-183.	1.4	2
94	The first report of X-ray characterized organosilatrane-based receptors for the electrochemical analysis of Al <sup>3+</sup> ions. <i>New Journal of Chemistry</i> , 2021, 45, 16083-16091.	1.4	2
95	Development of 3-Acetylcoumarin derived organosilane as potent antioxidant: Selective and sensitive colorimetric and fluorescent sensor for Al <sup>3+</sup> ions. <i>Inorganica Chimica Acta</i> , 2022, 537, 120921.	1.2	2
96	Schiff Based Silatranyl Compounds Exhibiting Fe <sup>3+</sup> and Mn <sup>2+</sup> Fluorescence Dual Ion Sensing and Antibacterial Activity. <i>Silicon</i> , 2018, 10, 2817-2827.	1.8	1
97	2,5-Dimercapto-1,3,4-Thiadiazole Tethered <sup>3</sup> Propylsilatrane: Syntheses, Characterization, UV-Vis and Electrochemical Studies. <i>Silicon</i> , 2019, 11, 2583-2589.	1.8	1
98	2,5-Dimercapto-1,3,4-Thiadiazole Tethered <sup>3</sup> Propylsilatrane: Syntheses, Characterization, UV-Vis and Electrochemical Studies. <i>Silicon</i> , 2019, 11, 2575-2582.	1.8	1
99	Click-Derived Uracil-Appended Organosilatranyl Scaffolds: Synthesis, Antibacterial Characteristics, Pb <sup>2+</sup> Binding and Fabrication of Hybrid Silica Nanoparticles. <i>ChemistrySelect</i> , 2020, 5, 284-292.	0.7	1
100	Thiosemicarbazone-triazole bearing siloxy framework for the detection of Hg <sup>2+</sup> and Cu <sup>2+</sup> ions and their potent cytotoxic activity. <i>Inorganica Chimica Acta</i> , 2022, 542, 121087.	1.2	1
101	Synthesis, characterization and reactivity study of ethoxytriisothiocyanatosilane. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
102	Design and Synthesis of Heterocyclic Encapsulated Organosilatranes for In Silico, In Vitro Antioxidant and Cytotoxicity Evaluation. <i>ChemistrySelect</i> , 2020, 5, 15055-15060.	0.7	0
103	New energy harvesting using conjugated chalconyl-organosiloxyl framework. <i>Materials Chemistry and Physics</i> , 2022, 279, 125751.	2.0	0