Dr. Raghubir Singh
Assistant Professor, Department of Chemistry
DAV Sector 10, Chandigarh
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Academic Qualifications

Examination Passed	Board/University	Year of passing	Subjects	Division
B.Sc. (Medical)	Panjab University Chandigarh	2001	Chemistry, Botany, Zoology, Punjab History, English, Chemistry	First
M.Sc.	Panjab University Chandigarh	2003	Inorganic, Organic, Physical, Analytical	First
Ph.D.	Panjab University Chandigarh	2011	Inorganic Chemistry	-
NET for Lectureship	UGC, New Delhi	2008	Chemical Sciences	

Work experience

S.N.	Position held	Name Of Institute	From	To
1	Assistant Professor	Sachdeva Engineering College For Girls, Gharuan (Kharar), Punjab	18-07-2011	10-08-2012
2	Assistant Professor	PG Department Of Chemistry, Bhojia Institute Of Life Sciences, Budh, Baddi (HP)	11-08-2012	23-06-2013
3	Assistant Professor	DAVCollege,Sector10, Chandigarh	24-06-2013	Till date

Professional recognition/Awards/prize/Certificate, Fellowship received by the applicant

S. No	Name of Award/ fellowship/recognition	Awarding agency	Period
1	**Meritorious fellow**	UGC, New Delhi	24.04.2007 to 31.03.2012 (5 Years)

Part-time teaching experience

2003-2013

Area of specialization

Inorganic Chemistry, Analytical Chemistry

Listof FDP/Refresher course Attended

Title of the Programe	Dates
104th Orientation Programme, Academic Staff College, PU, Chandigarh	25-11-2014 to 22-12-2014 (28 days)
Refresher Course, Academic Staff College, PU, Chandigarh	30-04-2016 to 20-05-2016 (21 days)
India Studies (Refresher Course) Panjab University, Chandigarh	15/11/2019 to 28/11/2019
Environmental Studies (Refresher Course), Panjab University, Chandigarh	17/11/2021 to 30/11/2021
E-Learning & E-Governance, Teaching Learning Centre Ramanujan College, University of Delhi	14/12/2023to20/12/2023
Artificial Intelligence in Research: Tools, Techniques, and Trends, Central University of Punjab	13/01/2025 to 18/01/2025

Academic positions/Designations

- IQAC Coordinator – 2024 to till now
- Deputy Dean Research – 2024 to till now
- DST FIST Coordinator – 2018 to till now
- In charge CIL – 2018 to till now
- Chemical Society In charge – 2016 to 2024

Researchinterests

1. **Inorganic synthesis**: Synthesis of metal complexes
2. **Applicationofmolecules/materials**:Detection,quantificationandremovalofenvironmental toxins

Ph.D/M.Sc.projectstudentsguided/guiding

(i) NumberofM.Sc.students guided/guiding 45

(ii) NumberofPh.D.studentsregistered for Ph.D. 05(Degree awarded)
04 (Registered)

Publications/bookchapterspublished

(i) Paperspublished	71
(ii) Bookchapterspublished	01

Events Orgnized

Title of the Event	Dates
National Science Day	28/02/2022
National Science Day	28/02/2023
National Science Day	28/02/2024
Hplc one day workshop	11/04/2022
Hplc three day workshop	1/06/2022 to 3/06/2022
Vigyan Diwas	22/05/2022

Details of the research funding received in the past and/on going projects

S. No.	Titleof project	PI/Co-PI	Funding agency (Scheme)	File No.	Time period	Amount (In lacs)
1	Tripodal motifs as a gateway for the Comparison of general aspects of Si andSn chemistry: Stereochemistry, hyper coordination and reactivity	PI	DST, New Delhi	SB/FT/CS-063/2012 (June 2014 to 2017)	3years	16.91
2	Copper pseudoatranes: Synthesis of mono-and Bimetallic cages with rigid and asymmetric skeletons for their potential applications	Co-PI	CSIR, New Delhi	01/(3075)/21/EMR-IIdated 12-08-21	3Years	17.0
3	Investigation of glutamine conjugated organotin compounds as chemotherapeutic agents and their evaluation in colon cancer model systems	Co- PI	CSIR, New Delhi	27/(0370)/20/EMR-IIdated 17-07-20	3Years	19.0

Academic Reviewing Experience

Publishing House	Journal	Number of Articles Reviewed
American Chemical Society	JAACS (Journal of American Chemical Society)	01
Wiley	Nano Select	01
Elsevier	Microchemical Journal	05

List of publications

S.N.	Author(s)	Title	Journal	Year	Vol	Page
71	Shagun Sharma, Varinder Kaur, Pratibha Duhan, **Raghubir Singh**, Navneet Agnihotri	Evaluation of Anticancer Activity of Novel and Tumor-Targeted Glutamine-Conjugated Organotin(IV) Compounds in Colorectal Cancer–An In Vitro and In Vivo Study	Journal of Medicinal Chemistry	2025	68, 3,	2593–2607
70	Jyoti Rohilla,Sahil Thakur, Sahil Sharma, **Raghubir Singh** and Varinder Kaur	Pd@BTL–Cd core–shell nanoparticles as plasmonic photocatalysts for the reductive amination of furfural in water	Dalton Transactions	2025	54	3645-3658
69	Sahil Sharma, Sahil Thakur, Jyoti Rohilla, **Raghubir Singh**, Varinder Kaur	ZrO(OH)2/Zn-MOF as a Nanocatalyst for Visible-Light-Driven Synthesis of Levulinic Acid from 5 Hydroxymethylfurfural	ACS Applied Nano Materials	2024	7	28466–28477

68	Sahil Thakur, Jyoti Rohilla , Sahil Sharma, **Raghubir Singh** , Raman Kamboj, Varinder Kaur	Photosensitizing CNTs by organotin(IV) compounds: Generation of reactive oxygen species and degradation of Amoxicillin	Dalton Transactions	2024	53	18283-18295
67	Lalita Thakur, Lipika Garg, Irshad Mohiuddin , **Raghubir Singh** , Varinder Kaur , Nikhlesh Thakur	A conjugated oligoelectrolyte for the recognition of uranyl ion in aqueous and soil samples via RGB method	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2024	327	125355
66	Harshita Gupta, Kulwinder Kaur, Irshad Mohiuddin, **Raghubir Singh** , Varinder Kaur	Cobalt/Aluminum layered double hydroxide intercalated with rice straw based-Biochar for recognizing organophosphates in cereal crops	Journal of Luminiscence	2024	277	120950
65	Sahil, Abhishek Soni, Jagadeesh Suriyaprakash**, Raghubir Singh**, Neeraj Gupta	Involvement of C=N Sites in Solvothermally Engineered Metal-Free Carbon Material From Weed Lantana camara for the Detection of Mercury Ions: Experimental and DFT Insights	Luminiscence	2024	39	e70036
64	Nancy Jaswal Vishal Bharati Jaryal , **Raghubir Singh** , Pramod Kumar , Neeraj Gupta	Harnessing biomass derived carbon material with heteroatoms for sensitive and selective detection of mercury (II) ions in waste water	Microchemical Journal	2024	207	111767

63	Vishal Bharati Jaryal, **Raghubir Singh**, Sajjad Ali, Mohamed Bououdina, Neeraj Gupta	Fabrication of a Reversible Fluorescence Sensor Based on Nitrogen-Sulfur Co-Doped Multiwalled Carbon Nanotubes for Detection of Mercury Ions: Experimental and DFT Insights	Chemistry Select	2024	9	e202400699
62	Sahil Sharma, Jyoti Rohilla, Sahil Thakur, **Raghubir Singh**, Varinder Kaur	Samarium-doped cobalt metal–organic framework as a versatile catalyst for the conversion of furfural and 2-methylfuran to high-value-added biofuel precursors	Sustainable Energy & Fuel	2024	8	3892-3901
61	Jyoti Rohilla,Sahil Thakur, Keshav Kumar, **Raghubir Singh**andVarinder Kaur	Au Nanoparticle anchored Stannatranone-pillared MOF as duo-active electrocatalyst for Overall Water Splitting	New Journal of Chemistry	2024	48	9768-9777
60	I Mohiuddin, **R Singh**, V Kaur	Blending polydopamine-derived imprinted polymers with rice straw-based fluorescent carbon dots for selective detection and adsorptive removal of ibuprofen	International Journal of Biological Macromolecules	2024	269	131765
59	R Negi, S Thakur, **R Singh**, V Kaur, K Singh	Double-layer protection of stainless steel by using triethylammonium-3-silatranylpropyldithiocarbamate as a corrosion inhibitor: Experimental and computational studies	Journal of Molecular Structure	2024	1309	138166

58	K Kaur, N Bansal, **R Singh**, V Kaur, N Capalash	Surfactant-induced AIE-active tin(IV) micelles for sensing naproxen residues in pharmaceutical effluents	Journal of Molecular Liquids	2024	397	124153
57	S Thakur, J Rohilla, K Kumar, R Singh, V Kaur, R Kamboj	Au nanoparticles confined in self-assembled Zn(II) metal-organic cubane cages for light-driven conversion of furfural to 2-methyl furan in biofuel production	Journal of Material Chemistry C	2023	12(5)	1683-1692
56	Sahil Thakur, Irshad Mohiuddin, **Raghubir Singh**, Varinder Kaur, Raman Kamboj, Shaminder Singh	Biomass-Derived Core–Shell Carbon Dots with Embedded Tripodal Receptors for the Selective Recognition of Mefenamic Acid in Pharmaceutical Formulations and Urine	ACS Apllied Bio Materials	2023	6,10	4403–4412
55	Kulwinder Kaur, Irshad Mohiuddin, Aman Grover, Harshita Gupta, **Raghubir Singh**, Varinder Kaur, Neena Capalash	4-Formylphenyl-β-D-allopyranoside decorated diorganotin(IV) crystalline solid with chevron architecture: An effective water-stable adsorbent against aqueous organic dyes	Journal of Molecular Structures	2023	1295	136619
54	Harshita Gupta, Kulwinder Kaur, Irshad Mohiuddin, **Raghubir Singh**, Varinder Kaur	Fluorescent Co/Al-layered double hydroxide intercalated Schiff base-chitosan composite for sensing multiple e-waste metals	Materials Today	2023	37	106986

53	Irshad Mohiuddin, **Raghubir Singh**, Varinder Kaur	A Review of Sensing Applications of Molecularly Imprinted Fluorescent Carbon Dots for Food and Biological Sample Analysis	Critical Reviews in Analytical Chemistry	2023	54	3212-3233
52	Jyoti Rohilla, Sahil Thakur, Keshav Kumar, **Raghubir Singh**, Varinder Kaur	Nanopalladium-Decorated Sn-Na MOF Catalyst for Upgrading Biosugars to 5-Hydroxymethylfurfural in an Aqueous Medium	ACS Apllied Nano Materials	2023	6, 13	12063–12072
51	Sahil Thakur, Irshad Mohiuddin, **Raghubir Singh**, Varinder Kaur	Selective quantification of diclofenac from groundwater and pharmaceutical samples by magnetic molecularly imprinted polymer-based sorbent coupled with the HPLC-PDA detection	Environmental Science and Pollution Research	2023	30	70871–70883
50	Sahil Thakur, Jyoti Rohilla, Keshav Kumar, Harender Kumar, Raman Kamboj, **Raghubir Singh**, Varinder Kaur, Ravneet Kaur	Synthesis of trinuclear Zinc(II) cluster composed of [4.4.3.01,5]tridecane cages: A rapid detection and degradation probe for chemical warfare agent simulant diethyl cyanophosphonate in protein-rich food products	Analyst	2023	114	2582-2593
49	Agrima Datta, Mamta Guleria, Keshav Kumar, Jyoti Agarwal, **Raghubir Singh**, Varinder Kaur	Copper (II) pseudoatrane appended heterobimetallic 2D-MOF: A multi-functional material with catalytic and sensing properties	Applied Organometallic Chemistry	2023	37	e7083

48	Keshav Kumar, Agrima Datta, Jyoti Rohilla, Sahil Thakur, **Raghubir Singh**, Varinder Kaur	Engineered organotin(IV) and vanadium(V) derivatives with distinct coordination modes and luminescent properties for the efficient detection and quantification of permanganate ions	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2023	294	122521
47	Irshad Mohiuddin, **Raghubir Singh**, Varinder Kaur	Fabrication of mesoporous nanoprobe with molecularly imprinted fluorescent carbon dots embedded within silica network for the selective and sensitive detection of aspirin in ground water samples	Journal of Environmental Chemical Engineering	2023	11	109067
46	Harshita Gupta, Kulwinder Kaur, **Raghubir Singh**& Varinder Kaur	Chitosan Schiff base for the spectrofluorimetric analysis of E-waste toxins: Pentabromophenol, Fe3+, and Cu2+ ions	Cellulose	2023	30	1381–1397
45	Kulwinder Kaur, Harshita Gupta, **Raghubir Singh**, Varinder Kaur, Neena Capalash	Benzo-γ-pyrone based diorganotin (IV) chelates as fluorescent probes for the detection of picric acid from soil and aqueous samples	Applied Organometallic Chemistry	2022	36	e6902
44	HarshitaGupta,**RaghubirSingh,** VarinderKaur	In-situ generation of fluorescent silica nano-aggregates of silatranyl appendedfurfuralSchiffbase and its application to the spectrofluorimetric analysisofphenolicbrominatedflame retardantsinaqueous medium	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2022	278	121338

43	KulwinderKaur,RaghubirSingh, Varinder Kaur, Neena Capalash	Water stable fluorescent organotin(IV) compounds: aggregation induced emission enhancement and recognitionofleadionsinan aqueoussystem	NewJournal ofChemistry	2022	46	148-161
42	KeshavKumar,**Raghubir Singh,** VarinderKaur	Synthesis, structure and hydrolysis studies of pseudostannatranes: Kinetic studies of a hexanucleartin(IV) hydroxo-cluster formed via reverse Kocheshkov reaction and partial hydrolysis of pseudostannatrane	Polyhedron	2022	219	115812
41	Shagun Sharma, Navneet Agnihotri,KeshavKumar,Swati Sihag, Vinay Randhawa, Ramandeep Kaur, **Raghubir Singh,**VarinderKaur	Glutamine conjugated organotin(IV) Schiff base compounds: Synthesis, structure,andanticancer properties	Applied Organometal licChemistry	2022	36	6521
40	Pawanpreet Kaur, **Raghubir Singh,** Varinder Kaur	Anthranilic Acid Schiff Baseas a Fluorescent Probe forthedetectionofArsenite and Selenite: A Detailed Investigationofanalytical Parameters and Mechanism for Interaction	Analytical Sciences	2021	37	553
39	Hemant Singh, Navneet Taya, Jyoti Agarwal, **Raghubir Singh**, Varinder Kaur	Dichiral [4.4.3.$0^{1,5}$]tridecanecopper(II) cluster derived from a tripodal ligand having unsymmetrical podands and the linker: Synthesis, structure,surfacegrafting andcatalytic aspects	Appl. Organometal licChemistry	2021	35	6075
38	MonikaChetal,Dinesh Talwar,RaghubirSingh, Santosh	Triethylenetetramine complexes of cobalt(III)	Journalof Chemical	2021	133	15
37	Arora, Vimal Bhardwaj, Subash Ch.Sahoo,RamanKumar,Rohit Sharma	having anion binding sites: synthesis, characterisation, crystal structure, anti-bacterial and anti-cancer properties of $[Co(trien)(NO_2)_2]_2Cr_2O_7$and $[Co(trien)(NO_2)_2]SCN$	Sciences			

36	Pawanpreet Kaur, **Raghubir Singh**, Varinder Kaur	DualroleofsilatranizedSchiff base as a fluorimetric probe and a linker to functionalize graphene oxide for the selectivedetectionand adsorptionofzincions	InorganicaChimicaActa	2020	512	119859
35	Keshav Kumar, Neha Srivastav, Mayank Khera, Neetu Goel, **Raghubir Singh**, Varinder Kaur	MononuclearPseudostannatr-anes Possessing Unsymmetrical [4.4.3.01,5]Tridecane Cage: ExperimentalAndTheoretical Aspects Of Reverse Kocheshkov Reaction In PhenylPseudo-stannatrane	Inorganic Chemistry	2020	59	13098 - 13108
34	KeshavKumar,NehaSrivastav, **RaghubirSingh**,VarinderKaur	Tricyclic tin(IV) cages: synthetic aspects and intriguing features of stannatranes and pseudostannatranes	NewJournal of Chemistry	2020	44	3168-3184
33	Jaswant Singh, Sahil Kumar, **RaghubirSingh**VarinderKaur	Schiff base - Zn^{2+} ion combo as 'pick and degrade' probe for selected organophosphorus chemical weapon mimics and flame retardant analog: Detoxificationoffruitsand vegetablesinaqueousmedia	Food Chemistry	2020	327	127080
32	JaswantSingh,JyotiPrakash, Varinder Kaur, **Raghubir Singh**	Zn^{2+}conjugated Schiff base organic nanoparticles for selective quantification and degradation of diethyl chlorophosphate in aqueous media:Applicationtogreen vegetables	Sensorsand Actuators B	2019	298	126923
31	Ranjeet Kaur, Shweta Rana, **Raghubir Singh**, Varinder Kaur, Priyanka Narula	A Schiff base modified grapheme oxide film for anodic stripping voltammetricdetermination ofarsenite	Michrochimica Acta	2019	186	741

30	HemantSingh,**RaghubirSingh**, Varinder Kaur	Prospects of silatranyl dye derivatives in cotton dyeing process and dye effluent treatment: a comparative studyofmethylredandits silatranylderivative	Cellulose	2019	26	2885-2894

29	Ruchi Mutneja, , Neha Srivastav, **Raghubir Singh**, Varinder Kaur, Bette, N., Klemm, V., Rafaja, D., Wagler, J., Kroke, E	Exploring superiority of silatranyl moiety asanchoring unit over its trialkoxysilyl analogue for covalent grafting via fabrication of functionalized mesoporous silica possessing azomethinicpincersfordye adsorption	Microporous and Mesoporous Materials	2019	273	265-272
28	JaswantSingh,Varinder Kaur, **Raghubir Singh**, Vimal K. Bhardwaj	Exploration of solventresponsive Cr^{3+} Schiff baseconjugatesformonitoring Cr^{3+}ions and organophosphates:Fabricatio n of spot-testingdevices	SpectrochimicaActaPart A:Molecular and Bio-molecular Spectroscopy	2018	201	46-53
27	PawanpreetKaur,**Raghubir Singh**, Varinder Kaur, Dinesh Talwar	Reusable Schiff base functionalized silica as a multi-purpose nanoprobe for fluorogenic recognition, quantificationandextraction ofZn^{2+}ions	Sensorsand Actuators B	2018	254	533-541
26	NavjotSingh,KeshavKumar, Neha Srivastav,**Raghubir Singh**, Varinder Kaur,Jerry P. Jasinski, Ray J. Butcher	Exploration of fluorescent organotincompoundsofα-aminoacidS chiffbasesfor the detection of organophosp-horouschemical warfare agents: quantification of diethyl-chlorophosphate	New Journal of Chemistry	2018	42	8756
25	NavjotSingh,KeshavKumar, Neha Srivastav,**Raghubir Sing**h, Varinder Kaur,Jerry P. Jasinski, Ray J. Butcher	Exploration of fluorescent organotin compounds of α-amino acid Schiff bases for the detection of organo-phosphorous chemical warfare agents: quanti-ficationofdiethylchloro-phosphate	New Journal of Chemistry	2018	42	8756
24	Navjot Singh,Neha Srivastav, **RaghubirSingh**, VarinderKaur,EricaBrendler,Joerg Wagler,Edwin Kroke	Fluorescent biogenic Schiff base compounds of dimethyltin	New Journal of Chemistry	2018	42	1655-1664

23	Pawanpreet Kaur, Jaswant Singh, **Raghubir Singh**, Varinder Kaur,Dinesh Talwar	Extending photophysical behaviorof Schiffbase tripod for the speciation of iron and fabrication of INHIBIT type molecular logic gate for fluorogenicrecognitionof Zn(II)andCd(II)ions	Polyhedron	2017	125	230-237
22	Neha Srivastav, **Raghubir Singh**, Varinder Kaur, Joerg Wagler, Edwin Kroke	A stannatrane-like [4.4.4.$0^{1,6}$] heterotricyclic stannate anion possessing rhodanide antennae:Achromoreactand forFe^{3+},Cu^{2+}andCo^{2+}ions	InorganicaChimicaActa	2017	463	54-60
21	Ruchi Mutneja, **Raghubir Singh**, Varinder Kaur, Joerg Wagler, Edwin Kroke, Sushil Kumar Kansal	Protontransferassistedfacile encapsulationofpicricacidin sol-gel derived silica decoratedwithazo-azomethinehosts	Dyes and Pigments	2017	139	635-643
20	Neha Srivastav, Ruchi Mutneja, Navjot Singh, **Raghubir Singh**, Varinder Kaur, Joerg Wagler, Edwin Kroke	Diverse molecular architectures of Si and Sn [4.4.3.$0^{1,6}$] tridecane cages derived from Mannich base possessing semi-rigid unsymm-etricalpodands	European Journal of Inorganic Chemistry	2016	11	1730-1737
19	Ruchi Mutneja, **Raghubir Singh**, Varinder Kaur, Joerg Wagler, Sabine Fels, Edwin Kroke	Schiff base tailed silatranes for the fabrication of functionalized silica based magnetic nano-cores possessingactivesitesforthe adsorptionofcopperions	NewJournal of Chemistry	2016	40	1640-1648
18	PriyankaNarula,RuchiMutneja, **RaghubirSingh**,VarinderKaur	Functionalized silica nanoparticles for trapping Pb^{2+} ions via diazo-azomethine scaffolds	Applied Organometallic Chemistry	2016	30	852-859
17	PawanpreetKaur,**Raghubir Singh**, Varinder Kaur, Dinesh Talwar	A chromogenic “off–on” azo-methine sensor possessing ONNNO receptorsite for iron species and its application in thefabricationofINHIBIT typemolecularlogicgate	Polyhedron	2016	111	71-78
16	ManishaGhai,PriyankaNarula, Varinder Kaur, **Raghubir Singh**	Imprintedsilicananoparticles coated with N-propylsiliylmorph-oline-4-carboxamide for the determinationofm-cresolin syntheticandrealsamples	Journal of separation science	2015	38	3442-3449

15	Neha Srivastav, **Raghubir Singh**, Varinder Kaur	Carbastannatranes: A powerfulcouplingmediators inStillecoupling	RSC advances	2015	5	62202 - 62213
14	Priyanka Narula, Varinder Kaur, **Raghubir Singh**, Sushil Kumar Kansal	Development of molecularly imprinted microspheres for the fast uptake of 4-cumylphenolfromwaterand soilsamples	Journal of separation science	2014	37	3330-3338
13	Prabhjot Kaur, Priyanka Narula, Varinder Kaur, **Raghubir Singh**, Sushil Kumar Kansal	Metalassistedapproachto develop molecularly imprinted mesoporous materialexhibitingpockets for the fast uptake of diethyl phthalate as copper complex	Analytical Sciences	2014	30	601-607
12	RuchiMutneja,**RaghubirSingh**, VarinderKaur,JoergWagler, EdwinKroke	Development of new precursorsforimmobilizing dyesonto silicasurfaces	Dyes and pigments	2014	108	41-49
11	Priyanka Narula, Varinder Kaur, **Raghubir Singh**, Ashok Kumar Malik	RecentProgress,Challenges andProspectsinMonitoring Plastic-DerivedXenoestrogens Using Molecularly Imprinted Sorbents	Chromatographia	2014	77	207-221
10	Ruchi Mutneja, **Raghubir Singh**, Varinder Kaur, Joerg Wagler, Edwin Kroke	Derivatization of3-aminopropyl-silatrane to introduceazomethinelinkage in the axial chain: Synthesis, characterization and structuralstudies	Journal of Organometallic Chemistry	2013	427	186-191
9	Dip Singh Gill, **Raghubir Singh**, DilbagSinghRana,JoergWagler, Edwin Kroke	Preparation,Characterization, X-Ray Structuredeterminationand SolutionPropertiesofsome Novel Copper(I) Bisulfate and SulfateSaltsandtheirStable Derivatives	Z. Naturforschung B	2012	66	1042-1048
8	**Raghubir Singh**, Jugal Kishore Puri, Varinder Kaur, Raj Pal Sharma, Sabeta Kohli, Ravi Kant, Baljinder Singh Gill	Synthesis, characterization, reactivity and antibacterial studies of triethylammonium-3-silatranylpropyldithiocarbamate with a detailed descriptionofX-raycrystal structure,spectro-scopicand quantummechanicalstudies of 3-(silatranyl)propyl-ammoniumchloride	Synthesis, reactivity in Inorg.,Metal-organic & Nanometal Chemistry	2012	42	823-832

7	VarinderKaur,**RaghubirSingh**, J.K.Puri,AshokKumarMalikF. M. Matysik	SpeciationofCr(III)andCr(VI) as morpholine-4-carbodithioate complex by using HPLC-PDA system after preconcentration on modifiedsilicafiber	Journal of Chromatographic Science	2012	50	26-32
6	**Raghubir Singh**, Jugal Kishore Puri, Varinder Kaur Chahal, Raj PalSharma,JörgWaglerand EdwinKroke	New silatranes possessing urea functionality: Synthesis, chara-cterizationandtheir structuralaspects	Journal of Organo-metallic Chemistry	2011	696	1341-1348
5	J.K.Puri,**RaghubirSingh**and Varinder Kaur	Silatranes:Areviewontheir synthesis, structure, reactivity and application	Chemical Society Reviews	2011	40	1791-1840
4	**Raghubir Singh**, Jugal Kishore Puri, Raj Pal Sharma, Ashok Kumar Malik, Valeria Ferretti	Synthesis, characterization and structural aspects of 3-azidopropylsilatrane (International)	Journal of Molecular Structure	2010	982	107-112
3	Jugal Kishore Puri, **Raghubir Singh**, Varinder Kaur Chahal, Raj Pal Sharma and PalothVenugopalan	Synthesis and reactivity of novel 3-isothiocyanato-propylsilatrane derived from aminopropylsila-trane: X-ray crystalstructureand theoreticalstudies	Journal of Organo-metallic Chemistry	2010	695	183-188
2	Jugal K. Puri, **Raghubir Singh**, Varinder K. Chahal and Raj Pal Sharma	Novel hexacoordinate organo-silicon(IV) complexes ofdiethylenetriamineSchiff basewithSiO_2N_3skeleton	ARKIVOC	2009	Xi	247-256
1	Jugal Kishore Puri, **Raghubir Singh**, Varinder Kaur Chahal, Gurjaspreet Singh, Raj Pal Sharma	Synthesis and CharacterizationofPentaand Hexa Coordinated Silicon compounds with SchiffsBasescontainingNCS functionality	MainGroup Metal Chemistry	2009	32	79-83

ListofbookChapters/books

Title	**Publisher**	**Yearof publication**	**Page**
CovalentOrganicFrameworks-BasedAdsorbents forMethaneStorage:ExperimentationandSimulations	CRCPress	2022	361-378