

# Ashwani Vij

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7728822/publications.pdf>

Version: 2024-02-01

94  
papers

3,597  
citations

159585

30  
h-index

138484

58  
g-index

103  
all docs

103  
docs citations

103  
times ranked

2869  
citing authors



#	ARTICLE	IF	CITATIONS
19	Enthalpies of Formation of Gas-Phase N <sub>3</sub> , N <sub>3</sub> <sup>-</sup> , N <sub>5</sub> <sup>+</sup> , and N <sub>5</sub> <sup>-</sup> from ab initio Molecular Orbital Theory, Stability Predictions for N <sub>5</sub> <sup>+</sup> N <sub>3</sub> <sup>-</sup> and N <sub>5</sub> <sup>+</sup> N <sub>5</sub> <sup>-</sup> , and Experimental Evidence for the Instability of N <sub>5</sub> <sup>+</sup> N <sub>3</sub> <sup>-</sup> . ChemInform, 2004, 35, no.	0.0	0
20	First Structural Characterization of Binary AsIII and SbIII Azides. Chemistry - A European Journal, 2004, 10, 508-517.	3.3	92
21	Preparation and Characterization of the Argentates: [Ag{P(CF <sub>3</sub> ) <sub>2</sub> }] <sub>2</sub> <sup>-</sup> , [Ag{(1/4)-P(CF <sub>3</sub> ) <sub>2</sub> M(CO) <sub>5</sub> }] <sub>2</sub> <sup>-</sup> (M = Cr, Tj ETQq1 1 0.784314 Inorganic Chemistry, 2004, 43, 1659-1666.	4.0	5
22	Enthalpies of Formation of Gas-Phase N <sub>3</sub> , N <sub>3</sub> <sup>-</sup> , N <sub>5</sub> <sup>+</sup> , and N <sub>5</sub> <sup>-</sup> from Ab Initio Molecular Orbital Theory, Stability Predictions for N <sub>5</sub> <sup>+</sup> N <sub>3</sub> <sup>-</sup> and N <sub>5</sub> <sup>+</sup> N <sub>5</sub> <sup>-</sup> , and Experimental Evidence for the Instability of N <sub>5</sub> <sup>+</sup> N <sub>3</sub> <sup>-</sup> . Journal of the American Chemical Society, 2004, 126, 834-843.	13.7	196
23	Methyl Tin(IV) Derivatives of HOTeF <sub>5</sub> and HN(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> : A Solution Multinuclear NMR Study and the X-ray Crystal Structures of (CH <sub>3</sub> ) <sub>2</sub> SnCl(OTeF <sub>5</sub> ) and [(CH <sub>3</sub> ) <sub>3</sub> Sn(H <sub>2</sub> O) <sub>2</sub> ][N(SO <sub>2</sub> CF <sub>3</sub> ) <sub>2</sub> ]. Inorganic Chemistry, 2004, 43, 3189-3199.	4.0	12
24	Title is missing!. Journal of Chemical Crystallography, 2003, 33, 245-251.	1.1	18
25	Structures of the BrF <sub>4</sub> <sup>+</sup> and IF <sub>4</sub> <sup>+</sup> Cations.. ChemInform, 2003, 34, no.	0.0	0
26	Polynitrogen Chemistry: Preparation and Characterization of (N <sub>5</sub> ) <sub>2</sub> SnF <sub>6</sub> , N <sub>5</sub> SnF <sub>5</sub> , and N <sub>5</sub> B(CF <sub>3</sub> ) <sub>4</sub> . Chemistry - A European Journal, 2003, 9, 2840-2844.	3.3	73
27	Polyazide Chemistry: Preparation and Characterization of Te(N <sub>3</sub> ) <sub>4</sub> and [P(C <sub>6</sub> H <sub>5</sub> ) <sub>4</sub> ] <sub>2</sub> [Te(N <sub>3</sub> ) <sub>6</sub> ] and Evidence for [N(CH <sub>3</sub> ) <sub>4</sub> ][Te(N <sub>3</sub> ) <sub>5</sub> ]. Angewandte Chemie - International Edition, 2003, 42, 5847-5851.	13.8	91
28	Energetic, Low-Melting Salts of Simple Heterocycles. Propellants, Explosives, Pyrotechnics, 2003, 28, 174-180.	1.6	192
29	On the Existence of FN <sub>5</sub> , a Theoretical and Experimental Study. Journal of Physical Chemistry A, 2003, 107, 6638-6647.	2.5	23
30	Calcium-Mediated Fulvene Couplings. 2. Survey of 6-Aryl- and 6-Alkylfulvenes for Their rac Selectivity in the Synthesis of ansa-Calcochenes. Organometallics, 2002, 21, 2020-2020.	2.3	0
31	Rangoli with Tin Drums: C-H-O Bond-Assisted Supramolecular Grids Involving Organostannoxane Clusters. Organometallics, 2002, 21, 3297-3300.	2.3	77
32	Synthesis and Characterization of the SO <sub>2</sub> N <sub>3</sub> <sup>-</sup> , (SO <sub>2</sub> ) <sub>2</sub> N <sub>3</sub> <sup>-</sup> , and SO <sub>3</sub> N <sub>3</sub> <sup>-</sup> Anions. Inorganic Chemistry, 2002, 41, 4275-4285.	4.0	13
33	Calcium-Mediated Fulvene Couplings. 2. Survey of 6-Aryl- and 6-Alkylfulvenes for Their rac Selectivity in the Synthesis of ansa-Calcochenes. Organometallics, 2002, 21, 182-191.	2.3	21
34	Triphenylmethyl difluorammonium: a stable reagent for the synthesis of gem-bis(difluorammonium). Chemical Communications, 2002, , 1712-1713.	4.1	13
35	Structures of the BrF <sub>4</sub> <sup>+</sup> and IF <sub>4</sub> <sup>+</sup> Cations. Inorganic Chemistry, 2002, 41, 6397-6403.	4.0	21
36	Tritylsulfinylamine: a new member in the family of sulfinylamines. Solid State Sciences, 2002, 4, 1529-1534.	3.2	10

#	ARTICLE	IF	CITATIONS
37	Experimental Detection of the Pentazacyclopentadienide (Pentazolate) Anion, cyclo-N5 <sup>-</sup> . This work was funded predominantly by the Defense Advanced Research Projects Agency, with additional support from the Air Force Office of Scientific Research and the National Science Foundation. The mass spectrometer instrumentation at UCSB was supported under the Army Research Office Award no. DAAD19-00-1-0026. We thank Dr. Robert Corley, Dr. Arthur Morrish, Dr. Don Woodbury, Dr. Michael Berman, and Prof. W. Kaska for. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3051.	2.0	67
38	Experimental Detection of the Pentazacyclopentadienide (Pentazolate) Anion, cyclo-N5 <sup>-</sup> . This work was funded predominantly by the Defense Advanced Research Projects Agency, with additional support from the Air Force Office of Scientific Research and the National Science Foundation. The mass spectrometer instrumentation at UCSB was supported under the Army Research Office Award no. DAAD19-00-1-0026. We thank Dr. Robert Corley, Dr. Arthur Morrish, Dr. Don Woodbury, Dr. Michael Berman, and Prof. W. Kaska for. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 3051.	13.8	251
39	Polynitrogen Chemistry. Synthesis, Characterization, and Crystal Structure of Surprisingly Stable Fluoroantimonate Salts of N5 <sup>+</sup> . <i>Journal of the American Chemical Society</i> , 2001, 123, 6308-6313.	13.7	245
40	Crystal Structure of F2NO+AsF6 <sup>-</sup> and Method for Extracting Meaningful Geometries from Oxygen/Fluorine Disordered Crystal Structures. <i>Inorganic Chemistry</i> , 2001, 40, 416-417.	4.0	16
41	Structure of the SO2F <sup>-</sup> Anion, a Problem Case 1. <i>Inorganic Chemistry</i> , 2001, 40, 1303-1311.	4.0	23
42	Acac-Promoted Rearrangement of an Alkylaluminophosphonate Tetramer to a Decamer. <i>Organometallics</i> , 2001, 20, 4833-4839.	2.3	26
43	Formation of a Novel Phenylidiphosphonic Acid Anion Dimer through Metal Assisted Hydrolysis of the P <sup>+</sup> -N Bond. <i>Inorganic Chemistry</i> , 2001, 40, 6057-6060.	4.0	34
44	ansa-Calocenes: trans-Ph2(CH3)2C2(1-5-C5H4)2Ca(DME). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2001, 57, m402-m403.	0.2	3
45	Honoring Karl O. Christe, on the occasion of his 65th birthday. <i>Journal of Fluorine Chemistry</i> , 2001, 112, 163-164.	1.7	0
46	In Pursuit of the PO2 <sup>+</sup> Cation. The Reaction of KPO2F2 and SbF5 leads to an Eight-membered Antimony-Oxygen-Phosphorus-bridged Ring. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2001, 627, 631-637.	1.2	8
47	Ethyl 5-methyl-4-(2,5,5-trimethyl-1,3-dioxan-2-yl)isoxazole-3-carboxylate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, 1146-1147.	0.4	2
48	Dichlorobis(1,2-phenylenediamine)nickel(II). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2000, 56, e454-e454.	0.4	9
49	Synthesis and reactions of the ferrocene derived hydroxymethyl phosphine FcCH(CH3)P(CH2OH)2 and its sulfide: crystal structures of [FcCH(CH3)P(S)R2] R=CH2OH, CH2CH2CN and FcCH(CH3)Tj ETQq1 1 0.884314 igBT /Ov	0.884314	igBT /Ov
50	Novel ferrocene derived cyclocarbaphosphazenes: synthesis and structure of spiro {Fe(1-C5H5)-[1-C5H4CH2P(S)(CH2O)2PN]}(Me2NCN)2. <i>Inorganic Chemistry Communication</i> , 2000, 3, 29-31.	3.9	12
51	Title is missing!. <i>Journal of Chemical Crystallography</i> , 2000, 30, 405-410.	1.1	8
52	Title is missing!. <i>Journal of Chemical Crystallography</i> , 2000, 30, 399-404.	1.1	8
53	Title is missing!. <i>Journal of Chemical Crystallography</i> , 2000, 30, 621-626.	1.1	2
54	Bis(permethylcyclopentadienyl)aluminum Compounds: Precursors to [Cp*2Al] <sup>+</sup> but Not to Cp*3Al. <i>Organometallics</i> , 2000, 19, 3361-3367.	2.3	22

#	ARTICLE	IF	CITATIONS
55	A Novel Synthesis of Hexakis(trifluoromethyl)cyclotriphosphazene. Single-Crystal X-ray Structures of N3P3(CF3)6 and N3P3F6. <i>Inorganic Chemistry</i> , 2000, 39, 375-377.	4.0	37
56	Synthesis and Characterization of Derivatives of a Hydroxymethyl Ruthenium Complex. <i>Organometallics</i> , 2000, 19, 4179-4182.	2.3	1
57	Pyramidalized olefins: The stereospecific conjugate reduction of a bicyclo[2.2.2]octadiene. <i>Tetrahedron Letters</i> , 1999, 40, 2689-2690.	1.4	10
58	Synthesis and X-ray crystal structure of PhC(CF3)(OH)CONEt2, and CH3C(CF3)(OH)CON[CH2CH(CH3)2]2. <i>Journal of Fluorine Chemistry</i> , 1999, 98, 127-132.	1.7	6
59	Dealkylation reactions of dialkylaminomethylferrocenes with cyclic chlorocarbaphosphazene, (ClCN)2(Cl2PN). <i>Journal of Organometallic Chemistry</i> , 1999, 580, 41-47.	1.8	11
60	fac-Re(bpy)(CO)3(COOMe): A model metalcarboxylate complex of rhenium with a bipyridyl ligand. <i>Journal of Chemical Crystallography</i> , 1999, 29, 619-622.	1.1	8
61	The structure-based design of novel AMPA bioisosteres. <i>Journal of Chemical Crystallography</i> , 1999, 29, 749-758.	1.1	4
62	Ring opening of bicyclic tertiary amines with cyclic chlorocarbaphosphazenes: reactions of (ClCN)2(Cl2PN) with 1,4-diazabicyclo[2.2.2]octane and quinuclidine. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 1515.	1.1	18
63	Reductive Coupling of an Indenylidene with Calcium To Form Bis(indenyl) ansa-Metallocenes: Molecular Structures of trans-Ph2C2H2-rac-(1-5-4,7-Me2C9H4)2Ca(THF)2 and trans-Ph2C2H2-rac-(1-5-4,7-Me2C9H4)2Fe. <i>Organometallics</i> , 1999, 18, 3468-3473.	2.3	28
64	Dealkylation Reactions of Trialkylamines with 1,3,5-Trichloro-1,2,4,6-cyclothiazine: A Novel Route to Regiospecific Dialkylamino Substitution on Cyclocarbazines. <i>Inorganic Chemistry</i> , 1999, 38, 3022-3026.	4.0	12
65	Novel Core-Modified Expanded Porphyrins with meso-Aryl Substituents: Synthesis, Spectral and Structural Characterization. <i>Journal of the American Chemical Society</i> , 1999, 121, 9053-9068.	13.7	120
66	Stable Borate-Bridged ansa-Zirconocene Complexes. Preparation and X-ray Crystallographic Characterization of [Cp*2Al]+[Me(Ph)B(1-5-C5H4)2ZrCl2]- and [PPN]+[Cl(Ph)B(1-5-C5H4)2ZrCl2]-. <i>Organometallics</i> , 1999, 18, 5432-5434.	2.3	43
67	Synthesis, characterization, and single crystal X-ray diffraction studies of cis-Ph2C2H2(1-5-C5H4)2Ca(THF)2. <i>Journal of Chemical Crystallography</i> , 1998, 28, 731-734.	1.1	8
68	Sapphyrin Supramolecules through C-H...S and C-H...Se Hydrogen Bonds: First Structural Characterization of meso-Arylsapphyrins Bearing Heteroatoms. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 3394-3397.	13.8	88
69	Synthesis of 4-fluoresorcinol and 4-trifluoromethylresorcinol. <i>Heteroatom Chemistry</i> , 1998, 9, 229-239.	0.7	8
70	p-Toluenesulfonyl esters of perfluorinated tertiary alcohols: crystal structure determination of the absolute configuration of C6F5(CF3)2COSO2C6H4CH3. <i>Journal of Fluorine Chemistry</i> , 1998, 89, 19-22.	1.7	1
71	N-Dealkylation of Aliphatic Tertiary Amines and Diamines with Cyanuric Chloride: Crystal Structure of 2,4-Dichloro-6-(N-ethyl-N-isopropylamino)-s-triazine. <i>Journal of Chemical Research Synopses</i> , 1998, , 504-505.	0.3	13
72	Synthesis and Characterization of Dimeric, Trimeric, and Tetrameric Gallophosphonates and Gallophosphates. <i>Inorganic Chemistry</i> , 1998, 37, 3734-3746.	4.0	50

#	ARTICLE	IF	CITATIONS
73	Synthesis of Poly- and the First Perfluoroalkyl-N(SO <sub>2</sub> F) <sub>2</sub> Derivatives: Improved Methods for the Preparation of XN(SO <sub>2</sub> F) <sub>2</sub> (X = H, Cl) and Single-Crystal Diffraction Studies of HN(SO <sub>2</sub> Cl) <sub>2</sub> , HN(SO <sub>2</sub> F) <sub>2</sub> , and CF <sub>3</sub> CH <sub>2</sub> N(SO <sub>2</sub> F) <sub>2</sub> . <i>Inorganic Chemistry</i> , 1998, 37, 6295-6303.	4.0	17
74	Theoretical Study and X-ray Structure Determination of Dimethyldihydropyrene. <i>Journal of Organic Chemistry</i> , 1998, 63, 3125-3127.	3.2	19
75	Synthesis and Reactions of fac-Re(bpy)(CO) <sub>3</sub> (CH <sub>2</sub> OR) (R = H, Acetyl; bpy = 2,2'-Bipyridyl). <i>Organometallics</i> , 1998, 17, 2689-2691.	2.3	26
76	Selective Reactivity of the Phosphorus-Chlorine and Carbon-Chlorine Bonds in Cyclic Chlorocarbaphosphazenes: An Unusual Activation of a Carbon-Nitrogen Bond in Trialkylamines. <i>Inorganic Chemistry</i> , 1997, 36, 2730-2745.	4.0	19
77	Phenylarsonates of Aluminum and Gallium: Synthesis and Structural Characterization of [tBuAl(Ph) <sub>3</sub> OAsPh] <sub>4</sub> and [tBu <sub>2</sub> Ga(Ph) <sub>2</sub> OAsPh] <sub>2</sub> O. <i>Inorganic Chemistry</i> , 1997, 36, 6476-6478.	4.0	19
78	Studies on the Reactivity of Tetrafluoro- and Pentafluorophenyl Trimethylsilyl Ether with Pentafluorobenzenes. Chemistry and X-ray Structural Investigations of Polyfluorodiphenyl Ethers. <i>Inorganic Chemistry</i> , 1997, 36, 366-381.	4.0	14
79	Some fluorine-containing nitrogen acids and their derivatives. <i>Coordination Chemistry Reviews</i> , 1997, 158, 413-432.	18.8	27
80	Fluoride Ion Induced Reactions of Silicon-Oxygen and Silicon-Sulfur Bonds with Hexafluorocyclotriphosphazenes: Synthesis, Reactivity, and X-ray Structural Analyses of Sulfur/Oxygen-Containing Monospirofluorophosphazenes. <i>Inorganic Chemistry</i> , 1996, 35, 2915-2929.	4.0	30
81	Synthesis of Cyclic Ethers with Fluorinated Side Chains. <i>Inorganic Chemistry</i> , 1996, 35, 1590-1601.	4.0	28
82	Hexakis(trifluoromethyl)tetrazan. <i>Angewandte Chemie</i> , 1995, 107, 645-647.	2.0	9
83	Hexakis(trifluoromethyl)tetrazane. <i>Angewandte Chemie International Edition in English</i> , 1995, 34, 586-588.	4.4	21
84	Perfluorovinyl Morpholine and Perfluorovinyl Pyrrolidine with Nucleophiles and Electrophiles. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 1995, 621, 1865-1874.	1.2	2
85	The double insertion of t-butyl isocyanide by tris(tetramethylcyclopentadienyl) aluminum to form. <i>Polyhedron</i> , 1995, 14, 203-209.	2.2	27
86	Solid state and solution behavior of triorganotin(IV) derivatives containing the 2,4,6-tris(trifluoromethyl)benzene and 1,4-bis(perfluoroisopropoxy)tetrafluorobenzene ligands: crystal and molecular structures of 2,4,6-(CF <sub>3</sub> ) <sub>3</sub> C <sub>6</sub> H <sub>2</sub> Sn(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> and 1,4-[(CH <sub>3</sub> ) <sub>3</sub> SnOC(CF <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> C <sub>6</sub> F <sub>4</sub> . [Erratum to document cited in CA122:10143]. <i>Inorganic Chemistry</i> , 1995, 34, 4516-4516.	4.0	0
87	Synthesis of Polyfluoro Aromatic Ethers: A Facile Route Using Polyfluoroalkoxides Generated from Carbonyl and Trimethylsilyl Compounds. <i>Inorganic Chemistry</i> , 1995, 34, 6085-6092.	4.0	35
88	Reactions of 4-Substituted 1,1-Dimethylsemicarbazides and -thiosemicarbazides with Ethyl Bromoacetate. <i>Journal of Organic Chemistry</i> , 1995, 60, 1464-1465.	3.2	5
89	Electrophilic Addition and Substitution Reactions of Bis((trifluoromethyl)sulfonyl)amide and Its N-Chloro Derivative. <i>Inorganic Chemistry</i> , 1994, 33, 3281-3288.	4.0	75
90	Sulfonation of Perfluorovinylamines: Synthesis of the First Examples of Nitrogen-Substituted .beta.-Fluorosulfones. <i>Inorganic Chemistry</i> , 1994, 33, 628-629.	4.0	11

#	ARTICLE	IF	CITATIONS
91	Solid State and Solution Behavior of Triorganotin(IV) Derivatives Containing the 2,4,6-Tris(trifluoromethyl)benzene and 1,4-Bis(perfluoroisopropoxy)tetrafluorobenzene Ligands: Crystal and Molecular Structures of 2,4,6-(CF <sub>3</sub> ) <sub>3</sub> C <sub>6</sub> H <sub>2</sub> Sn(C <sub>6</sub> H <sub>5</sub> ) <sub>3</sub> and 1,4-[(CH <sub>3</sub> ) <sub>3</sub> SnOC(CF <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> C <sub>6</sub> F <sub>4</sub> . <i>Inorganic Chemistry</i> , 1994, 33, 5456-5462.	4.0	21
92	Trimethylsilyl bis(fluorosulfonyl)imide: A new catalyst for the reactions of acetals with silyl nucleophiles. <i>Tetrahedron Letters</i> , 1993, 34, 7335-7338.	1.4	47
93	Perfluorovinylamines: reactions of the perfluorovinyl group with nucleophiles and electrophiles. <i>Inorganic Chemistry</i> , 1993, 32, 5011-5020.	4.0	9
94	Syntheses and multinuclear NMR studies of some trialkyltin(IV) bis(fluorosulfonyl)imides. <i>Journal of Fluorine Chemistry</i> , 1992, 58, 43-51.	1.7	10