

# G Naresh Patwari

## List of Publications by Year in descending order

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83  
papers

1,432  
citations

304743

22  
h-index

414414

32  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1290  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mimicking the solvation of aqueous Na <sup>+</sup> in the gas phase. <i>Journal of Chemical Physics</i> , 2003, 118, 8555-8558.	3.0	75
2	Selective fluorescence sensing of polynitroaromatic explosives using triaminophenylbenzene scaffolds. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10651-10658.	2.8	64
3	Charge transfer aided selective sensing and capture of picric acid by triphenylbenzenes. <i>New Journal of Chemistry</i> , 2015, 39, 886-892.	2.8	59
4	Evidence of a dihydrogen bond in gas phase: Phenolâ€“borane-dimethylamine complex. <i>Journal of Chemical Physics</i> , 2000, 113, 9885-9888.	3.0	45
5	Proton Affinities of Boraneâ€™Amines: Consequences on Dihydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2035-2038.	2.5	42
6	The Câ€“Hâ€“B dihydrogen bonded borane-trimethylamine dimer: A computational study. <i>Chemical Physics Letters</i> , 2006, 419, 265-268.	2.6	42
7	Structure of the Phenylacetyleneâ€™Water Complex as Revealed by Infrared-Ultraviolet Double Resonance Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3360-3363.	2.5	39
8	Hydrogen-Bonded Complexes of Phenylacetylene with Water, Methanol, Ammonia, and Methylamine. The Origin of Methyl Group-Induced Hydrogen Bond Switching. <i>Journal of Physical Chemistry A</i> , 2009, 113, 6620-6625.	2.5	38
9	Proton Affinity Correlations between Hydrogen and Dihydrogen Bond Acceptors. <i>Journal of Physical Chemistry A</i> , 2007, 111, 3178-3183.	2.5	37
10	Do N-heterocyclic aromatic rings prefer Î€-stacking?. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 5514.	2.8	35
11	Gas phase dihydrogen bonded phenolâ€“boraneâ€“trimethylamine complex. <i>Journal of Chemical Physics</i> , 2001, 114, 8877-8879.	3.0	33
12	A Î€-stacked phenylacetylene dimer. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16706.	2.8	33
13	Dihydrogen bonded phenolâ€“borane-dimethylamine complex: An experimental and theoretical study. <i>Journal of Chemical Physics</i> , 2002, 116, 6056-6063.	3.0	31
14	IRâ€™UV Double Resonance Spectroscopic Investigation of Phenylacetyleneâ€™Alcohol Complexes. Alkyl Group Induced Hydrogen Bond Switching. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5121-5125.	2.5	29
15	Infraredâ€“optical double resonance spectroscopic measurements and high level ab initio calculations on a binary complex between phenylacetylene and borane-trimethylamine. Understanding the role of Câ€“Hâ€“Î€ interactions. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9738.	2.8	29
16	Phenylacetylene: A Hydrogen Bonding Chameleon. <i>ChemPhysChem</i> , 2011, 12, 26-46.	2.1	29
17	Octanuclear Zinc Phosphates with Hitherto Unknown Cluster Architectures: Ancillary Ligand and Solvent Assisted Structural Transformations Thereof. <i>Inorganic Chemistry</i> , 2015, 54, 9458-9469.	4.0	29
18	Theoretical investigation of Câ€“Hâ€“B dihydrogen bonded complexes of acetylenes with borane-trimethylamine. <i>Chemical Physics Letters</i> , 2006, 419, 5-9.	2.6	26

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19	Electrostatics determine vibrational frequency shifts in hydrogen bonded complexes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25247-25250.	2.8	26
20	Elusive Double-Eight-Ring Zeolitic Secondary Building Unit. <i>Journal of the American Chemical Society</i> , 2017, 139, 59-62.	13.7	26
21	Hydrogen Bonding to Multifunctional Molecules: Spectroscopic and ab Initio Investigation of Water Complexes of Fluorophenylacetylenes. <i>Journal of Physical Chemistry A</i> , 2009, 113, 1760-1769.	2.5	23
22	Binary complexes of tertiary amines with phenylacetylene. Dispersion wins over electrostatics. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 6150.	2.8	23
23	Insights into acid dissociation of HCl and HBr with internal electric fields. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7461-7464.	2.8	23
24	Cyclohexane as a Li <sup>+</sup> -Selective Ionophore. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7585-7588.	2.5	22
25	Dehydrogenation Reaction from a Dihydrogen Bonded Precursor Complex in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2001, 105, 10753-10758.	2.5	20
26	Complete infrared spectroscopic characterization of phenol-borane-trimethylamine dihydrogen-bonded complex in the gas phase. <i>Journal of Chemical Physics</i> , 2006, 124, 241103.	3.0	20
27	Electronic and Vibrational Spectroscopic Investigation of Phenylacetylene <sup>+</sup> Amine Complexes. Evidence for the Diversity in the Intermolecular Structures. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4426-4431.	2.5	20
28	A $\pi$ -stacked phenylacetylene and 1,3,5-triazine heterodimer: a combined spectroscopic and ab initio investigation. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 11207.	2.8	20
29	Internal electric fields in small water clusters [(H <sub>2</sub> O) <sub>n</sub> ; n = 2-6]. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16730-16737.	2.8	20
30	Electronic and Vibrational Spectroscopy of Dihydrogen Bonded 2-Pyridone <sup>+</sup> Borane <sup>+</sup> Trimethylamine Complex in Supersonic Jets. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8642-8645.	2.5	19
31	IR Photodissociation Spectroscopy of Na <sup>+</sup> [H <sub>2</sub> O] <sub>m</sub> [C <sub>6</sub> F <sub>6</sub> ] <sub>n</sub> Clusters: Evidence for Separation of Aqueous and Nonaqueous Phases. <i>Journal of Physical Chemistry A</i> , 2003, 107, 9495-9498.	2.5	19
32	Photoelectron spectroscopy of hydrated hexafluorobenzene anions. <i>Journal of Chemical Physics</i> , 2007, 127, 114312.	3.0	18
33	A Combined Spectroscopic and ab Initio Investigation of Phenylacetylene <sup>+</sup> Methylamine Complex. Observation of $\pi$ and $\pi$ Type Hydrogen-Bonded Configurations and Fluorescence Quenching by Weak C-H $\cdots$ N Hydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2010, 114, 11347-11352.	2.5	18
34	Fluorescence Quenching Studies of $\beta$ -Butyrolactone Binding Protein (CprB) from <i>Streptomyces coelicolor</i> A3(2). <i>Journal of Physical Chemistry B</i> , 2014, 118, 10035-10042.	2.6	18
35	Spectroscopic investigation of tetrahydroisoquinoline in supersonic jet. <i>Journal of Chemical Physics</i> , 2001, 115, 5184-5191.	3.0	17
36	$\pi$ -Stacked Dimers of Fluorophenylacetylenes: Role of Dipole Moment. <i>Journal of Physical Chemistry A</i> , 2017, 121, 3383-3391.	2.5	17

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37	Electrostatics and Dispersion in $X\cdots H\cdots Y$ ( $X = C, N, O; Y = N, O$ ) Hydrogen Bonds and Their Role in $X\cdots H$ Vibrational Frequency Shifts. <i>ACS Omega</i> , 2018, 3, 18518-18527.	3.5	17
38	Studies of Structural Isomers <i>o</i> -, <i>m</i> -, and <i>p</i> -Fluorophenylacetylene by Two-Color Resonant Two-Photon Mass-Analyzed Threshold Ionization Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8277-8286.	2.5	16
39	Hydrogen bond induced enhancement of Fermi resonances in $N\cdots H\cdots N$ hydrogen bonded complexes of anilines. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21557-21566.	2.8	16
40	The propargylbenzene dimer: $C\cdots H\cdots C$ assisted $\pi\cdots\pi$ stacking. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9090-9097.	2.8	15
41	The role of electronegativity on the extent of nitridation of group 5 metals as revealed by reactions of tantalum cluster cations with ammonia molecules. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 13974-13982.	2.8	15
42	Vibrational spectroscopic signatures of hydrogen bond induced NH stretch-bend Fermi-resonance in amines: The methylamine clusters and other $N\cdots H\cdots N$ hydrogen-bonded complexes. <i>Journal of Chemical Physics</i> , 2020, 153, 194301.	3.0	15
43	Phenylacetylene dimer: Ab initio and DFT study. <i>Chemical Physics</i> , 2013, 415, 150-155.	1.9	14
44	Spectroscopic and ab initio investigation of 2,6-difluorophenylacetylene-amine complexes: coexistence of $C\cdots H\cdots N$ and lone-pair- $\pi$ complexes and intermolecular coulombic decay. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 434-443.	2.8	14
45	Unraveling the Origin of Differentiable Turn-On™ Fluorescence Sensing of $Zn^{2+}$ and $Cd^{2+}$ Ions with Squaramides. <i>ChemPhysChem</i> , 2020, 21, 1564-1570.	2.1	14
46	Understanding Fermi resonances in the complex vibrational spectra of the methyl groups in methylamines. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 3739-3747.	2.8	13
47	Estimation of interfacial acidity of sodium dodecyl sulfate micelles. <i>Journal of Chemical Sciences</i> , 2011, 123, 909-918.	1.5	12
48	A liquid crucible model for aggregation of phenylacetylene in the gas phase. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 13623-13632.	2.8	11
49	Infrared-Optical Double-Resonance Measurements on $O\cdots H\cdots H\cdots Ge$ Dihydrogen-Bonded Phenol-Triethylgermanium Hydride Complex in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 2008, 112, 5930-5934.	2.5	10
50	Water Complexes of Styrene and 4-Fluorostyrene: A Combined Electronic, Vibrational Spectroscopic and Ab-Initio Investigation. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9702-9707.	2.5	10
51	Infrared-Optical Double Resonance Spectroscopic Measurements on 2-(2-Pyridyl)benzimidazole and its Hydrogen Bonded Complexes with Water and Methanol. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8323-8330.	2.5	10
52	Water-Induced Adsorption of Carbon Monoxide and Oxygen on the Gold Dimer Cation. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8293-8297.	2.5	9
53	Synthesis and structure of arylselenium(ii) and aryltellurium(ii) cations based on rigid 5-tert-butyl-1,3-bis-(N-pentylbenzimidazol-2-yl)benzenes. <i>Dalton Transactions</i> , 2018, 47, 9114-9127.	3.3	9
54	Bend-to-Break: Curvilinear Proton Transfer in Phenol-Ammonia Clusters. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3101-3108.	2.5	9

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55	Hydrogen Bonding to Multifunctional Molecules: Spectroscopic and ab Initio Investigation of 4-Ethynylbenzotrile (Water) Complexes. <i>Journal of Physical Chemistry A</i> , 2010, 114, 8337-8344.	2.5	8
56	Spectroscopic and Ab Initio Investigation of N Hydrogen-Bonded Complexes of Fluorophenylacetylenes: Frequency Shifts and Correlations. <i>ChemPhysChem</i> , 2016, 17, 2509-2515.	2.1	8
57	Theoretical Investigation of In-Plane Hydrogen-Bonded Complexes of Ammonia with Partially Substituted Fluorobenzenes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2772-2777.	2.5	7
58	Binary Complexes of Ammonia with Phenylacetylenes: A Combined Experimental and Computational Approach to Explore Multiple Minima on Intermolecular Potentials. <i>ChemPhysChem</i> , 2013, 14, 746-753.	2.1	7
59	Three-Fold C <sub>3</sub> -Symmetric Off-On Fluorescent Chemo-Sensors for Fluoride. <i>Journal of Fluorescence</i> , 2016, 26, 997-1005.	2.5	7
60	Photodissociation of o-xylene at 266 nm: imaging the CH <sub>3</sub> dissociation channel. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	1.5	7
61	Interaction of Alcohols with 2-Fluoro- and 4-Fluorophenylacetylenes: Infrared-Optical Double Resonance Spectroscopic and Computational Investigation. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11229-11237.	2.5	6
62	Probing the role of dispersion energy on structural transformation of double-stranded xylo- and ribo-nucleic acids. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 3842-3848.	2.8	6
63	Progressive Hydrophobicity of Fluorobenzenes. <i>Journal of Physical Chemistry B</i> , 2019, 123, 10083-10088.	2.6	6
64	π-Stacking Driven Aggregation and Folding of Squaramides. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5832-5839.	2.5	6
65	Fluorescence enhancement detected IR (FEDIR) spectroscopy: a new background free IR spectroscopic technique for highly fluorescent molecules. <i>Chemical Physics Letters</i> , 2002, 361, 453-456.	2.6	5
66	Dipole moment enhanced π-π stacking in fluorophenylacetylenes is carried over from gas-phase dimers to crystal structures propagated through liquid like clusters. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9938-9947.	2.8	5
67	Is Dissociation of HCl in DMSO Clusters Bistable?. <i>Journal of Physical Chemistry A</i> , 2021, 125, 10351-10358.	2.5	5
68	Dipole Moment Propels π-Stacking of Heterodimers of Fluorophenylacetylenes. <i>Journal of Physical Chemistry A</i> , 2020, 124, 7470-7477.	2.5	4
69	Internal electric fields in methanol [MeOH] <sub>2</sub> clusters. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10917-10923.	2.8	4
70	Identification of allosteric hotspots regulating the ribosomal RNA binding by antibiotic resistance-conferring Erm methyltransferases. <i>Journal of Biological Chemistry</i> , 2022, 298, 102208.	3.4	4
71	Intermolecular structure on binary complexes of water with phenylacetylene and its substituted analogs: a combined spectroscopic and ab initio investigation. <i>Indian Journal of Physics</i> , 2012, 86, 173-179.	1.8	3
72	Vibrational Stark Fields in Carboxylic Acid Dimers. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	3

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73	Ultrafast Proton-Transfer Reaction in Phenol (Ammonia) Clusters: An Ab Initio Molecular Dynamics Investigation. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1590-1597.	2.6	3
74	Dynamics of Methyl Radical Formation Following 266 nm Dissociative Photoionization of Xylenes and Mesitylene. <i>Journal of Physical Chemistry A</i> , 2022, 126, 1960-1965.	2.5	3
75	Infrared-Optical Double Resonance Spectroscopic Investigation of Trifluoromethylphenols and Their Water Complexes. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6996-7003.	2.5	2
76	Probing the role of electrostatics of polypeptide main-chain in protein folding by perturbing N-terminal residue stereochemistry: DFT study with oligoalanine models. <i>RSC Advances</i> , 2016, 6, 113611-113619.	3.6	2
77	Hierarchy of $\pi$ -stacking determines the conformational preferences of bis-squaramates. <i>CrystEngComm</i> , 2021, 23, 5331-5336.	2.6	2
78	Hydration of Fluorobenzenes: A Molecular Dynamics Simulation Investigation. <i>Journal of the Indian Institute of Science</i> , 2020, 100, 221-230.	1.9	1
79	Hydrogen-Bonded Complexes of Fluorophenylacetylenes: To Fluoresce or Not?. <i>ChemPhysChem</i> , 2020, 21, 1711-1717.	2.1	1
80	Isolation of a telluroxane cluster $[(R_2TeO)(\frac{1}{4}-TeO_2)(OTeR_2)] [TeO(OH)_2]$ ( $R=C_6H_5NNC_6H_4$ ) stabilized by intra- and intermolecular secondary bonding interactions: Molecular and electronic structure analysis. <i>Polyhedron</i> , 2021, 198, 115037.	2.2	1
81	$\pi$ -Stacking in Heterodimers of Propargylbenzene with (Fluoro)phenylacetylenes. <i>ACS Omega</i> , 2021, 6, 17720-17725.	3.5	1
82	Probing the interaction between human serum albumin and the sodium dodecyl sulphate with fluorescence correlation spectroscopy. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	0
83	Binary Matrix Method to Enumerate, Hierarchically Order, and Structurally Classify Peptide Aggregation. <i>Journal of Chemical Information and Modeling</i> , 2022, 62, 1585-1594.	5.4	0