

Swapan K Ghosh

List of Publications by Year in descending order

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92
papers

3,345
citations

168829

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169272

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93
all docs

93
docs citations

93
times ranked

3518
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics in condensed phase for systems involving phase functions obeying Gaussian statistics. <i>Journal of the Indian Chemical Society</i> , 2022, 99, 100290.	1.3	0
2	Concept of reaction coordinate for dynamics of optically controlled non-equilibrium processes in condensed phase. <i>Theoretical Chemistry Accounts</i> , 2020, 139, 1.	0.5	1
3	Reactivity Parameters and Substitution Effect in Organic Acids. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3770-3777.	1.1	5
4	Ruthenium(II)â€‘arene complexes of diimines: Effect of diimine intercalation and hydrophobicity on DNA and protein binding and cytotoxicity. <i>Applied Organometallic Chemistry</i> , 2018, 32, e4154.	1.7	14
5	Insight into the enhanced photocatalytic activity of SrTiO ₃ in the presence of a (Ni, V/Nb/Ta/Sb) pair. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20078-20087.	1.3	23
6	Improving visible light photocatalytic activity of KTaO ₃ using cation-anion dopant pair. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 590-598.	3.0	31
7	DNA and protein binding, double-strand DNA cleavage and cytotoxicity of mixed ligand copper(II) complexes of the antibacterial drug nalidixic acid. <i>Journal of Inorganic Biochemistry</i> , 2017, 174, 1-13.	1.5	69
8	A computational investigation of the red and blue shifts in hydrogen bonded systems. <i>Journal of Chemical Sciences</i> , 2017, 129, 975-981.	0.7	7
9	Efficient Strategy for Enhancement of Visible Light Photocatalytic Activity of NaTaO ₃ by a Significant Extent. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12980-12990.	1.5	20
10	Optically Controlled Electron-Transfer Reaction Kinetics and Solvation Dynamics: Effect of Franckâ€‘Condon States. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4545-4549.	2.1	7
11	An Efficient Strategy for Controlled Band Gap Engineering of KTaO ₃ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 6920-6929.	1.5	63
12	Improving the photocatalytic activity of s-triazine based graphitic carbon nitride through metal decoration: an ab initio investigation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 26466-26474.	1.3	16
13	Improving visible light photocatalytic activity of NaNbO ₃ : a DFT based investigation. <i>RSC Advances</i> , 2016, 6, 90188-90196.	1.7	21
14	Improving KNbO ₃ photocatalytic activity under visible light. <i>RSC Advances</i> , 2016, 6, 9958-9966.	1.7	33
15	Exploring the Role of La Codoping beyond Charge Compensation for Enhanced Hydrogen Evolution by Rhâ€‘SrTiO ₃ . <i>Journal of Physical Chemistry B</i> , 2015, 119, 11089-11098.	1.2	54
16	Effects of Concentration on Like-Charge Pairing of Guanidinium Ions and on the Structure of Water: An All-Atom Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11262-11274.	1.2	27
17	Origin of enhanced visible light driven water splitting by (Rh, Sb)-SrTiO ₃ . <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15274-15283.	1.3	40
18	Hydrogen Trapping Ability of the Pyridineâ€‘Lithium ⁺ (1:1) Complex. <i>Journal of Physical Chemistry A</i> , 2015, 119, 3056-3063.	1.1	18

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19	Role of F in Improving the Photocatalytic Activity of Rh-Doped SrTiO ₃ . Journal of Physical Chemistry C, 2015, 119, 7215-7224.	1.5	56
20	Photocatalytic splitting of water on s-triazine based graphitic carbon nitride: an ab initio investigation. Journal of Materials Chemistry A, 2015, 3, 23011-23016.	5.2	53
21	Enhancement of Visible Light Photocatalytic Activity of SrTiO ₃ : A Hybrid Density Functional Study. Journal of Physical Chemistry C, 2015, 119, 23503-23514.	1.5	78
22	Towards an exact factorization of the molecular wave function. Molecular Physics, 2015, 113, 3067-3072.	0.8	4
23	Effect of confinement on the structure and energetics of Zundel cation present inside the hydrophobic carbon nanotubes: an ab initio study. Theoretical Chemistry Accounts, 2014, 133, 1.	0.5	3
24	Photocatalytic Activity of NaTaO ₃ Doped with N, Mo, and (N,Mo): A Hybrid Density Functional Study. Journal of Physical Chemistry C, 2014, 118, 10711-10719.	1.5	59
25	Hydrogen adsorption in lithium decorated conjugated microporous polymers: a DFT investigation. RSC Advances, 2014, 4, 4170-4176.	1.7	19
26	Improving photocatalytic properties of SrTiO ₃ through (Sb, N) codoping: a hybrid density functional study. RSC Advances, 2014, 4, 45703-45709.	1.7	31
27	Porous Graphitic Carbon Nitride: A Possible Metal-free Photocatalyst for Water Splitting. Journal of Physical Chemistry C, 2014, 118, 26479-26484.	1.5	172
28	Improvement of photocatalytic activity of NaTaO ₃ under visible light by N and F doping. Chemical Physics Letters, 2014, 613, 54-58.	1.2	24
29	Zeta potential of colloidal particle in solvent primitive model electrolyte solution: a density functional theory study. Molecular Physics, 2013, 111, 489-496.	0.8	6
30	Density functional theory of surface tension of real fluids using a double well type Helmholtz free energy functional: application to water and heavy water. Molecular Physics, 2013, 111, 589-593.	0.8	3
31	Isomers of C ₁₂ N ₁₂ as potential hydrogen storage materials and the effect of the electric field therein. RSC Advances, 2013, 3, 6991.	1.7	12
32	Density functional theory of vapor to liquid heterogeneous nucleation: Lennard-Jones fluid on solid substrate. Molecular Physics, 2013, 111, 868-877.	0.8	3
33	Comparison of orders, structures and anomalies of water: A molecular dynamics simulation study. , 2013, , .		1
34	Solvent primitive model study of structure of colloidal solution in highly charge asymmetric electrolytes. , 2013, , .		1
35	Chemistry of molecules to physics of materials: A unified view through density window at different length scales. , 2012, , .		0
36	Electron transfer reactions in condensed phase: Effect of reversibility. Physical Review E, 2012, 85, 026105.	0.8	8

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37	Transition Metal Decorated Porphyrin-like Porous Fullerene: Promising Materials for Molecular Hydrogen Adsorption. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25184-25189.	1.5	68
38	Electronic Structure, Optical Properties, and Hydrogen Adsorption Characteristics of Supercubane-Based Three-Dimensional Porous Carbon. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25015-25021.	1.5	20
39	On the interaction of uranyl with functionalized fullerenes: a DFT investigation. <i>RSC Advances</i> , 2012, 2, 2994.	1.7	19
40	Theoretical investigation of hydrogen adsorption in all-metal aromatic clusters. <i>RSC Advances</i> , 2012, 2, 2914.	1.7	44
41	Water dissociation on a gold cluster: the effect of carbon nanostructures as a substrate. <i>RSC Advances</i> , 2012, 2, 10262.	1.7	12
42	Hydrogen-bonded complexes of nicotine with simple alcohols. <i>International Journal of Quantum Chemistry</i> , 2012, 112, 2787-2793.	1.0	8
43	Graphyne and Graphdiyne: Promising Materials for Nanoelectronics and Energy Storage Applications. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5951-5956.	1.5	430
44	Elucidating the mechanism of binding of chromate to cucurbit[6]uril: a DFT study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2012, 72, 437-441.	1.6	10
45	Computational investigation of hydrogen adsorption in silicon-lithium binary clusters#. <i>Journal of Chemical Sciences</i> , 2012, 124, 255-260.	0.7	10
46	Water molecule encapsulated in carbon nanotube model systems: effect of confinement and curvature. <i>Theoretical Chemistry Accounts</i> , 2012, 131, 1.	0.5	9
47	Elucidating the structures and binding of halide ions bound to cucurbit[6]uril, hemi-cucurbit[6]uril and bambus[6]uril using DFT calculations. <i>RSC Advances</i> , 2011, 1, 1333.	1.7	27
48	Effect of ionic size on the structure of spherical double layers: a Monte Carlo simulation and density functional theory study. <i>Molecular Physics</i> , 2011, 109, 639-644.	0.8	13
49	An ab Initio Investigation of Hydrogen Adsorption in Li-Doped closo-Boranes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1450-1456.	1.5	40
50	Beyond the Gold-Hydrogen Analogy: Doping Gold Cluster with H-atom-O ₂ Activation and Reduction of the Reaction Barrier for CO Oxidation. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1476-1480.	2.1	42
51	Tuning the Metal Binding Energy and Hydrogen Storage in Alkali Metal Decorated MOF-5 Through Boron Doping: A Theoretical Investigation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16984-16991.	1.5	45
52	Mapping the reaction dynamics in Liouville space onto a reaction coordinate space: A first-principle-based theory. <i>Physical Review E</i> , 2011, 83, 026104.	0.8	8
53	Theory of reversible electron transfer reactions in a condensed phase. <i>Physical Review E</i> , 2010, 82, 016110.	0.8	13
54	Work distribution for a particle moving in an optical trap and non-Markovian bath. <i>Journal of Chemical Sciences</i> , 2009, 121, 897-904.	0.7	1

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55	A self-consistent density-functional approach to the structure of electric double layer: charge-asymmetric electrolytes. <i>Molecular Physics</i> , 2009, 107, 19-25.	0.8	5
56	One-Dimensional Description of Multidimensional Electron Transfer Reactions in Condensed Phase. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4879-4884.	1.1	4
57	Hydrogen Bonding in Substituted Formic Acid Dimers. <i>Journal of Physical Chemistry A</i> , 2006, 110, 12623-12628.	1.1	48
58	THEORETICAL STUDIES ON POLARIZABILITY OF ALKALI METAL CLUSTERS. , 2006, , 625-655.		0
59	A density functional theory-based chemical potential equalisation approach to molecular polarizability. <i>Journal of Chemical Sciences</i> , 2005, 117, 401-409.	0.7	9
60	Ab initio studies on the polarizability of lithium clusters: Some unusual results. <i>International Journal of Quantum Chemistry</i> , 2005, 105, 166-173.	1.0	21
61	Electron Density and Energy Decomposition Analysis in Hydrogen-Bonded Complexes of Azabenzenes with Water, Acetamide, and Thioacetamide. <i>Journal of Physical Chemistry A</i> , 2005, 109, 7575-7582.	1.1	44
62	Diffusion-Influenced Fluorescence Quenching by Electron Transfer: The Effect of an External Electric Field. <i>Israel Journal of Chemistry</i> , 2004, 44, 119-125.	1.0	1
63	Density functional theory and multiscale materials modeling. <i>Bulletin of Materials Science</i> , 2003, 26, 3-12.	0.8	5
64	Integral equation theory of penetrable sphere fluids: A modified Verlet bridge function approach. <i>Journal of Chemical Physics</i> , 2003, 119, 4827-4832.	1.2	24
65	Diffusion assisted end-to-end relaxation of a flexible Rouse polymer chain: Fluorescence quenching through a model energy transfer. <i>Journal of Chemical Physics</i> , 2003, 119, 572-584.	1.2	13
66	Polarizability of water clusters: An ab initio investigation. <i>Journal of Chemical Physics</i> , 2003, 118, 8547-8550.	1.2	42
67	Weighted-density-functional approach to the structure of nonuniform fluids. <i>Journal of Chemical Physics</i> , 2003, 118, 8326-8330.	1.2	6
68	Structure of nonuniform three-component fluid mixtures: A density-functional approach. <i>Journal of Chemical Physics</i> , 2003, 118, 3668-3676.	1.2	21
69	Structure of an inhomogeneous fluid mixture: A new weighted density-functional theory within a perturbative approach. <i>Journal of Chemical Physics</i> , 2003, 118, 1327-1332.	1.2	5
70	Diffusion influenced end-to-end reaction of a flexible polymer chain: The memory effect. <i>Journal of Chemical Physics</i> , 2002, 116, 4366-4369.	1.2	17
71	Structure of electric double layers: A self-consistent weighted-density-functional approach. <i>Journal of Chemical Physics</i> , 2002, 117, 8938-8943.	1.2	45
72	Sedimentation equilibrium of a suspension of adhesive colloidal particles in a planar slit: A density functional approach. <i>Journal of Chemical Physics</i> , 2002, 116, 384.	1.2	11

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73	A self-consistent weighted-density-functional approach to the structure of simple fluids. Journal of Chemical Physics, 2002, 116, 9845-9849.	1.2	6
74	Structure of nonuniform fluid mixtures: A self-consistent density-functional approach. Journal of Chemical Physics, 2002, 117, 8933-8937.	1.2	19
75	A continued fraction approach to cross diffusivity in a binary fluid mixture. Journal of Chemical Physics, 2002, 116, 7081-7086.	1.2	1
76	Integral equation theory of Lennard-Jones fluids: A modified Verlet bridge function approach. Journal of Chemical Physics, 2002, 116, 8517.	1.2	59
77	DENSITY CONCEPT IN MATERIALS MODELING AT DIFFERENT LENGTH SCALES. , 2002, , 1295-1326.		0
78	Universal Scaling Laws of Diffusion in a Binary Fluid Mixture. Physical Review Letters, 2001, 87, 245901.	2.9	93
79	Density functional theory of inhomogeneous fluid mixture based on bridge function. Journal of Chemical Physics, 2001, 114, 8530-8538.	1.2	32
80	Mode coupling theory of self and cross diffusivity in a binary fluid mixture: Application to Lennard-Jones systems. Journal of Chemical Physics, 2001, 114, 10419-10429.	1.2	48
81	Colloidal suspensions in charged cylindrical pores: A perturbative density functional approach. Journal of Chemical Physics, 1999, 111, 1737-1745.	1.2	7
82	Predictive methods of pople. Resonance, 1999, 4, 95-98.	0.2	0
83	A perturbative density functional theory of inhomogeneous fluid mixture. Journal of Chemical Physics, 1999, 110, 8628-8635.	1.2	26
84	A perturbative density functional approach to the structure of colloidal suspension. Journal of Chemical Physics, 1998, 108, 7493-7500.	1.2	12
85	Exchange?correlation potential and excited-state density functional theory. International Journal of Quantum Chemistry, 1996, 60, 535-543.	1.0	17
86	Exact evaluation of diffusion dynamics in a potential well with a general delocalized sink. Physical Review E, 1993, 47, 4568-4571.	0.8	28
87	Density-functional theory of many-electron systems subjected to time-dependent electric and magnetic fields. Physical Review A, 1988, 38, 1149-1158.	1.0	177
88	Toward a semiempirical density functional theory of chemical binding. Theoretica Chimica Acta, 1987, 72, 379-391.	0.9	37
89	A classical fluid?like approach to the density?functional formalism of many?electron systems. Journal of Chemical Physics, 1985, 83, 2976-2983.	1.2	191
90	Study of the kinetic energy density functional in the locally linear potential approximation. Journal of Chemical Physics, 1985, 83, 5778-5783.	1.2	48

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91	Chemical Physics, 1985, 82, 3307-3315.	1.2	115
92	On the concept of local hardness in chemistry. Journal of the American Chemical Society, 1985, 107, 6811-6814.	6.6	307