Deivasigamani Umadevi

List of Publications by Year
in descending order

20 papers	949 citations	687363 13 h-index	752698 20 g-index
20 all docs	20 docs citations	20 times ranked	1302 citing authors

#	Article	IF	Citations
1	A supramolecular TrÃ¶ger's base derived coordination zinc polymer for fluorescent sensing of phenolic-nitroaromatic explosives in water. Chemical Science, 2017, 8, 1535-1546.	7.4	164
2	Quantum Mechanical Study of Physisorption of Nucleobases on Carbon Materials: Graphene versus Carbon Nanotubes. Journal of Physical Chemistry Letters, 2011, 2, 1572-1576.	4.6	156
3	Noncovalent Interaction of Carbon Nanostructures. Accounts of Chemical Research, 2014, 47, 2574-2581.	15.6	147
4	Molecular and Ionic Interaction with Graphene Nanoflakes: A Computational Investigation of CO₂, H₂O, Li, Mg, Li⁺, and Mg²⁺Interaction with Polycyclic Aromatic Hydrocarbons. Journal of Physical Chemistry C, 2011, 115, 9656-9667.	3.1	102
5	Aggregation induced emission (AIE) active 4-amino-1,8-naphthalimide-TrÃ¶ger's base for the selective sensing of chemical explosives in competitive aqueous media. Chemical Communications, 2020, 56, 2562-2565.	4.1	53
6	â€œTurn-onâ€•fluorescence sensing of volatile organic compounds using a 4-amino-1,8-naphthalimide TrÃ¶ger's base functionalised triazine organic polymer. Chemical Communications, 2019, 55, 12140-12143.	4.1	48
7	Metal ion binding with carbon nanotubes and graphene: Effect of chirality and curvature. Chemical Physics Letters, 2012, 549, 39-43.	2.6	46
8	Impact of the Chirality and Curvature of Carbon Nanostructures on Their Interaction with Aromatics and Amino Acids. ChemPhysChem, 2013, 14, 2570-2578.	2.1	43
9	Synthesis, structural characterisation and antiproliferative activity of a new fluorescent 4-amino-1,8-naphthalimide TrÃ¶ger's baseâ€“Ru(<scp>ii</scp>)â€“curcumin organometallic conjugate. Chemical Communications, 2018, 54, 4120-4123.	4.1	34
10	Reversible adsorption and storage of secondary explosives from water using a TrÃ¶ger's base-functionalised polymer. Journal of Materials Chemistry A, 2017, 5, 25014-25024.	10.3	29
11	Graphane versus graphene: a computational investigation of the interaction of nucleobases, aminoacids, heterocycles, small molecules (CO₂, H₂O, NH₃,) Tj ETQq1 1 0.784314 rgBT /Over 2015, 17, 30260-30269.	2.8	26
12	Quasiparticle <i>GW</i> Calculations on Lead-Free Hybrid Germanium Iodide Perovskite CH₃NH₃GeI₃ for Photovoltaic Applications. ACS Omega, 2019, 4, 5661-5669.	3.5	24
13	Contrasting preferences of N and P substituted heteroaromatics towards metal binding: probing the regioselectivity of Li+ and Mg2+ binding to (CH)6âˆ'mâˆ'nNmPn. Physical Chemistry Chemical Physics, 2012, 14, 13922.	2.8	18
14	Synthesis, structural characterization, antibiotics sensing and coordination chemistry of a fluorescent 4-amino-1,8-naphthalimide TrÃ¶gerâ€™s base supramolecular scaffold. Supramolecular Chemistry, 2020, 32, 620-633.	1.2	13
15	Hierarchical supramolecular co-assembly formation employing multi-component light-harvesting charge transfer interactions giving rise to long-wavelength emitting luminescent microspheres. Chemical Science, 2022, 13, 7805-7813.	7.4	13
16	Concise total synthesis of botryolide B. RSC Advances, 2014, 4, 8335.	3.6	12
17	Hyper-crosslinked 4-amino-1,8-naphthalimide TrÃ¶gerâ€™s base containing pyridinium covalent organic polymer (COP) for discriminative fluorescent sensing of chemical explosives. Supramolecular Chemistry, 2020, 32, 508-517.	1.2	7
18	A simple 4-amino-1,8-naphthalimide hydrazine based â€œturn-onâ€•fluorescent chemosensor for selective and reversible detection of Zn(II) ion. Inorganica Chimica Acta, 2022, 533, 120798.	2.4	7

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19	Saturated vs. unsaturated hydrocarbon interactions with carbon nanostructures. Frontiers in Chemistry, 2014, 2, 75.	3.6	6
20	Anomalous Lithium Adsorption Propensity of Monolayer Carbonaceous Materials: A Density Functional Study. Journal of Chemical Sciences, 2016, 128, 1641-1649.	1.5	1