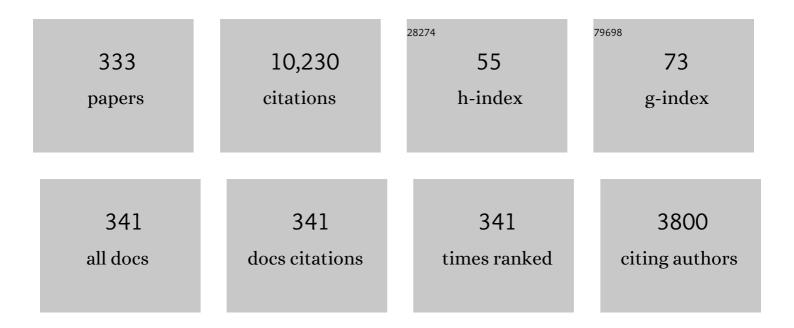
List of Publications by Year in descending order

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Κηποςμίο Δλιιβ

#	Article	IF	CITATIONS
1	DFT Study of Polyaniline NH ₃ , CO ₂ , and CO Gas Sensors: Comparison with Recent Experimental Data. Journal of Physical Chemistry C, 2013, 117, 23701-23711.	3.1	194
2	A comparative density functional theory study of guanine chemisorption on Al12N12, Al12P12, B12N12, and B12P12 nano-cages. Journal of Alloys and Compounds, 2016, 672, 161-169.	5.5	151
3	Doping and Dedoping Processes of Polypyrrole: DFT Study with Hybrid Functionals. Journal of Physical Chemistry C, 2014, 118, 17819-17830.	3.1	122
4	Are phosphide nano-cages better than nitride nano-cages? A kinetic, thermodynamic and non-linear optical properties study of alkali metal encapsulated X ₁₂ Y ₁₂ nano-cages. Journal of Materials Chemistry C, 2016, 4, 10919-10934.	5.5	122
5	Designing Threeâ€dimensional (3D) Nonâ€Fullerene Small Molecule Acceptors with Efficient Photovoltaic Parameters. ChemistrySelect, 2018, 3, 12797-12804.	1.5	119
6	Adsorption of Phosgene Gas on Pristine and Copper-Decorated B ₁₂ N ₁₂ Nanocages: A Comparative DFT Study. ACS Omega, 2020, 5, 7641-7650.	3.5	114
7	Theoretical insight of polypyrrole ammonia gas sensor. Synthetic Metals, 2013, 172, 14-20.	3.9	105
8	Superalkalis as a source of diffuse excess electrons in newly designed inorganic electrides with remarkable nonlinear response and deep ultraviolet transparency: A DFT study. Applied Surface Science, 2019, 483, 1118-1128.	6.1	105
9	Enhanced electronic and non-linear optical properties of alkali metal (Li, Na, K) doped boron nitride nano-cages. Journal of Alloys and Compounds, 2016, 687, 976-983.	5.5	102
10	Ni adsorption on Al12P12 nano-cage: A DFT study. Journal of Alloys and Compounds, 2016, 678, 317-324.	5.5	102
11	Opto-electronic properties of non-fullerene fused-undecacyclic electron acceptors for organic solar cells. Computational Materials Science, 2019, 159, 150-159.	3.0	102
12	Designing of benzodithiophene core-based small molecular acceptors for efficient non-fullerene organic solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 244, 118873.	3.9	102
13	Enhancement in hydrogen molecule adsorption on B12N12 nano-cluster by decoration of nickel. International Journal of Hydrogen Energy, 2016, 41, 22182-22191.	7.1	100
14	Enhancement in Photovoltaic Properties of <i>N</i> , <i>N</i> â€diethylaniline based Donor Materials by Bridging Core Modifications for Efficient Solar Cells. ChemistrySelect, 2020, 5, 5022-5034.	1.5	95
15	Molecular and Electronic Structure Elucidation of Polypyrrole Gas Sensors. Journal of Physical Chemistry C, 2015, 119, 15994-16003.	3.1	94
16	Phosphides or nitrides for better NLO properties? A detailed comparative study of alkali metal doped nano-cages. Materials Research Bulletin, 2017, 92, 113-122.	5.2	92
17	Nonlinear optical and electronic properties of Cr-, Ni-, and Ti- substituted C 20 fullerenes: A quantum-chemical study. Materials Research Bulletin, 2018, 97, 399-404.	5.2	91
18	Design of Liquid Crystals with "de Vries-like―Properties: Frustration between SmA- and SmC-Promoting Elements. Journal of the American Chemical Society, 2010, 132, 364-370.	13.7	88

#	Article	lF	CITATIONS
19	Adsorption of thiophene on the surfaces of X 12 Y 12 (X = Al, B, and Y = N,P) nanoclusters; A DFT study. Journal of Molecular Liquids, 2017, 238, 303-309.	4.9	88
20	O 3 and SO 2 sensing concept on extended surface of B 12 N 12 nanocages modified by Nickel decoration: A comprehensive DFT study. Solid State Sciences, 2017, 69, 22-30.	3.2	87
21	Density functional theory study of palladium cluster adsorption on a graphene support. RSC Advances, 2020, 10, 20595-20607.	3.6	86
22	Density Functional Theory Study of Poly(<i>o</i> -phenylenediamine) Oligomers. Journal of Physical Chemistry C, 2013, 117, 4069-4078.	3.1	83
23	Adsorption of pyrrole on Al12N12, Al12P12, B12N12, and B12P12 fullerene-like nano-cages; a first principles study. Vacuum, 2016, 131, 135-141.	3.5	83
24	Designing indacenodithiophene based non-fullerene acceptors with a donor–acceptor combined bridge for organic solar cells. RSC Advances, 2019, 9, 3605-3617.	3.6	83
25	Synthesis, Crystal Structures and Spectroscopic Properties of Triazine-Based Hydrazone Derivatives; A Comparative Experimental-Theoretical Study. Molecules, 2015, 20, 5851-5874.	3.8	80
26	Remarkable nonlinear optical response of alkali metal doped aluminum phosphide and boron phosphide nanoclusters. Journal of Molecular Liquids, 2018, 271, 51-64.	4.9	80
27	Adsorption behaviour of chronic blistering agents on graphdiyne; excellent correlation among SAPT, reduced density gradient (RDG) and QTAIM analyses. Journal of Molecular Liquids, 2020, 316, 113860.	4.9	79
28	The First Zn ^{II} atalyzed Oxidative Amidation of Benzyl Alcohols with Amines under Solventâ€Free Conditions. European Journal of Organic Chemistry, 2013, 2013, 2783-2787.	2.4	78
29	Highly selective acridinium based cyanine dyes for the detection of DNA base pairs (adenine, cytosine,) Tj ETQq	1 1 <u>9.</u> 7843	314 ₇ gBT /Ove
30	Designing alkoxy-induced based high performance near infrared sensitive small molecule acceptors for organic solar cells. Journal of Molecular Liquids, 2020, 305, 112829.	4.9	76
31	Theoretical study on a boron phosphide nanocage doped with superalkalis: novel electrides having significant nonlinear optical response. New Journal of Chemistry, 2019, 43, 5727-5736.	2.8	73
32	Design of novel superalkali doped silicon carbide nanocages with giant nonlinear optical response. Optics and Laser Technology, 2020, 122, 105855.	4.6	73
33	Therapeutic potential of graphitic carbon nitride as a drug delivery system for cisplatin (anticancer) Tj ETQq1 1	0.784314 2.8	rgBT_/Overloc
34	Designing Novel Zn-Decorated Inorganic B ₁₂ P ₁₂ Nanoclusters with Promising Electronic Properties: A Step Forward toward Efficient CO ₂ Sensing Materials. ACS Omega, 2020, 5, 15547-15556.	3.5	71
35	Nitrogenated holey graphene (C2N) surface as highly selective electrochemical sensor for ammonia. Journal of Molecular Liquids, 2019, 296, 111929.	4.9	69
36	Theoretical study on novel superalkali doped graphdiyne complexes: Unique approach for the enhancement of electronic and nonlinear optical response. Journal of Molecular Graphics and Modelling, 2020, 97, 107573.	2.4	68

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37	Coordination of nickel atoms with Al12X12 (XÂ=ÂN, P) nanocages enhances H2 adsorption: A surface study by DFT. Vacuum, 2016, 133, 70-80.	3.5	67
38	Fine Tuning the Optoelectronic Properties of Triphenylamine Based Donor Molecules for Organic Solar Cells. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1127-1139.	2.8	67
39	High sensitivity of polypyrrole sensor for uric acid over urea, acetamide and sulfonamide: A density functional theory study. Synthetic Metals, 2018, 235, 49-60.	3.9	66
40	Theoretical study on design of novel superalkalis doped graphdiyne: A new donor–acceptor (D-π-A) strategy for enhancing NLO response. Applied Surface Science, 2019, 492, 255-263.	6.1	66
41	Cyclic versus straight chain oligofuran as sensor: A detailed DFT study. Journal of Molecular Graphics and Modelling, 2020, 97, 107569.	2.4	66
42	Supported protic ionic liquid membrane based on 3-(trimethoxysilyl)propan-1-aminium acetate for the highly selective separation of CO2. Journal of Membrane Science, 2017, 543, 301-309.	8.2	65
43	Development of fullerene free acceptors molecules for organic solar cells: A step way forward toward efficient organic solar cells. Computational and Theoretical Chemistry, 2019, 1161, 26-38.	2.5	65
44	Silver-graphene quantum dots based electrochemical sensor for trinitrotoluene and p-nitrophenol. Journal of Molecular Liquids, 2020, 306, 112878.	4.9	65
45	Doping superalkali on Zn12O12 nanocage constitutes a superior approach to fabricate stable and high-performance nonlinear optical materials. Optics and Laser Technology, 2019, 120, 105753.	4.6	64
46	Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonohydrazine. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 364-374.	3.9	63
47	Theoretical study of the non linear optical properties of alkali metal (Li, Na, K) doped aluminum nitride nanocages. RSC Advances, 2016, 6, 94228-94235.	3.6	62
48	Synthesis, characterisation, optical and nonlinear optical properties of thiazole and benzothiazole derivatives: a dual approach. Molecular Simulation, 2018, 44, 1191-1199.	2.0	62
49	Transition metal doping: a new and effective approach for remarkably high nonlinear optical response in aluminum nitride nanocages. New Journal of Chemistry, 2018, 42, 6976-6989.	2.8	61
50	Phytochemical, spectroscopic and density functional theory study of Diospyrin, and non-bonding interactions of Diospyrin with atmospheric gases. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 141, 71-79.	3.9	60
51	DFT study of the therapeutic potential of phosphorene as a new drug-delivery system to treat cancer. RSC Advances, 2019, 9, 24325-24332.	3.6	58
52	Designing dithienothiophene (DTT)-based donor materials with efficient photovoltaic parameters for organic solar cells. Journal of Molecular Modeling, 2019, 25, 222.	1.8	58
53	Spirobifluorene based small molecules as an alternative to traditional fullerene acceptors for organic solar cells. Materials Science in Semiconductor Processing, 2019, 94, 97-106.	4.0	58
54	Tuning opto-electronic properties of alkoxy-induced based electron acceptors in infrared region for high performance organic solar cells. Journal of Molecular Liquids, 2020, 298, 111963.	4.9	58

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55	Exceptionally high NLO response and deep ultraviolet transparency of superalkali doped macrocyclic oligofuran rings. New Journal of Chemistry, 2020, 44, 2609-2618.	2.8	58
56	Density functional theory and phytochemical study of Pistagremic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 118, 210-214.	3.9	55
57	Detailed surface study of adsorbed nickel on Al12N12 nano-cage. Thin Solid Films, 2016, 612, 179-185.	1.8	55
58	Adsorption properties of acetylene and ethylene molecules onto pristine and nickel-decorated Al 12 N 12 nanoclusters. Materials Chemistry and Physics, 2017, 194, 337-344.	4.0	55
59	Design of donor–acceptor–donor (D–A–D) type small molecule donor materials with efficient photovoltaic parameters. International Journal of Quantum Chemistry, 2017, 117, e25363.	2.0	54
60	Extremely large nonlinear optical response and excellent electronic stability of true alkaline earthides based on hexaammine complexant. Journal of Molecular Liquids, 2020, 297, 111899.	4.9	54
61	Density functional theory and phytochemical study of 8-hydroxyisodiospyrin. Journal of Molecular Structure, 2015, 1095, 69-78.	3.6	53
62	Transportation of hydrogen atom and molecule through X 12 Y 12 nano-cages. International Journal of Hydrogen Energy, 2017, 42, 11439-11451.	7.1	53
63	Designing dithienonaphthalene based acceptor materials with promising photovoltaic parameters for organic solar cells. RSC Advances, 2019, 9, 34496-34505.	3.6	52
64	A comparative study of DFT calculated and experimental UV/Visible spectra for thirty carboline and carbazole based compounds. Journal of Molecular Structure, 2017, 1149, 282-298.	3.6	51
65	Calculation Driven Synthesis of an Excellent Dihydropyrene Negative Photochrome and its Photochemical Properties. Journal of the American Chemical Society, 2011, 133, 4040-4045.	13.7	50
66	How can nickel decoration affect H 2 adsorption on B 12 P 12 nano-heterostructures?. Journal of Molecular Liquids, 2018, 255, 168-175.	4.9	50
67	High performance SACs for HER process using late first-row transition metals anchored on graphyne support: A DFT insight. International Journal of Hydrogen Energy, 2021, 46, 37814-37823.	7.1	49
68	High selectivity of cyclic tetrapyrrole over tetrafuran and tetrathiophene toward toxic chemicals; A first-principles study. Microporous and Mesoporous Materials, 2020, 299, 110126.	4.4	48
69	Therapeutic potential of graphyne as a new drug-delivery system for daunorubicin to treat cancer: A DFT study. Journal of Molecular Liquids, 2021, 336, 116327.	4.9	48
70	An accurate cost effective DFT approach to study the sensing behaviour of polypyrrole towards nitrate ions in gas and aqueous phases. Physical Chemistry Chemical Physics, 2016, 18, 19236-19247.	2.8	47
71	Designing of non-fullerene 3D star-shaped acceptors for organic solar cells. Journal of Molecular Modeling, 2019, 25, 129.	1.8	47
72	Combined experimental and theoretical study of poly(aniline-co-pyrrole) oligomer. Polymer, 2015, 72, 30-39.	3.8	46

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73	Adamanzane based alkaline earthides with excellent nonlinear optical response and ultraviolet transparency. Optics and Laser Technology, 2020, 129, 106298.	4.6	46
74	Enhanced linear and nonlinear optical response of superhalogen (Al7) doped graphitic carbon nitride (g-C3N4). Optik, 2021, 226, 165923.	2.9	46
75	A comprehensive DFT study on the sensing abilities of cyclic oligothiophenes (<i>n</i> CTs). New Journal of Chemistry, 2019, 43, 14120-14133.	2.8	45
76	High sensitivity of graphdiyne nanoflake toward detection of phosgene, thiophosgene and phosogenoxime; a first-principles study. Journal of Molecular Graphics and Modelling, 2020, 100, 107658.	2.4	45
77	Zinc-Doped Boron Phosphide Nanocluster as Efficient Sensor for SO ₂ . Journal of Chemistry, 2020, 2020, 1-12.	1.9	45
78	Significant nonlinear optical response of alkaline earth metals doped beryllium and magnesium oxide nanocages. Materials Chemistry and Physics, 2020, 242, 122507.	4.0	44
79	First-principles study for exploring the adsorption behavior of G-series nerve agents on graphdyine surface. Computational and Theoretical Chemistry, 2020, 1191, 113043.	2.5	43
80	Remarkable second and third order nonlinear optical properties of organometallic C ₆ Li ₆ –M ₃ O electrides. New Journal of Chemistry, 2020, 44, 9822-9829.	2.8	43
81	Outstanding NLO response of thermodynamically stable single and multiple alkaline earth metals doped C20 fullerene. Journal of Molecular Liquids, 2020, 305, 112875.	4.9	43
82	Bithieno Thiophene-Based Small Molecules for Application as Donor Materials for Organic Solar Cells and Hole Transport Materials for Perovskite Solar Cells. ACS Omega, 2022, 7, 844-862.	3.5	43
83	Click one pot synthesis, spectral analyses, crystal structures, DFT studies and brine shrimp cytotoxicity assay of two newly synthesized 1,4,5-trisubstituted 1,2,3-triazoles. Journal of Molecular Structure, 2016, 1106, 430-439.	3.6	42
84	Theoretical Calculations of the Optical and Electronic Properties of Dithienosilole―and Dithiopheneâ€Based Donor Materials for Organic Solar Cells. ChemistrySelect, 2018, 3, 1593-1601.	1.5	42
85	Silver clusters tune up electronic properties of graphene nanoflakes: A comprehensive theoretical study. Journal of Molecular Liquids, 2020, 297, 111902.	4.9	42
86	Potential sensing of toxic chemical warfare agents (CWAs) by twisted nanographenes: A first principle approach. Science of the Total Environment, 2022, 824, 153858.	8.0	41
87	An accurate comparative theoretical study of the interaction of furan, pyrrole, and thiophene with various gaseous analytes. Journal of Molecular Modeling, 2017, 23, 295.	1.8	40
88	Exploration of adsorption behavior, electronic nature and NLO response of hydrogen adsorbed Alkali metals (Li, Na and K) encapsulated Al12N12 nanocages. Journal of Theoretical and Computational Chemistry, 2020, 19, 2050031.	1.8	40
89	Comparative investigation of sensor application of polypyrrole for gaseous analytes. Journal of Physical Organic Chemistry, 2019, 32, e3960.	1.9	39
90	DFT study of superhalogen and superalkali doped graphitic carbon nitride and its non-linear optical properties. RSC Advances, 2021, 11, 7779-7789.	3.6	39

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91	Adsorption mechanism of p- aminophenol over silver-graphene composite: A first principles study. Journal of Molecular Liquids, 2021, 341, 117415.	4.9	39
92	Tuning the optoelectronic properties of scaffolds by using variable central core unit and their photovoltaic applications. Chemical Physics Letters, 2021, 782, 139018.	2.6	39
93	Copper-doped Al12N12 nano-cages: potential candidates for nonlinear optical materials. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	38
94	Alkaline earth metal decorated phosphide nanoclusters for potential applications as high performance NLO materials; A first principle study. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 118, 113906.	2.7	38
95	Isatin-derived non-fullerene acceptors for efficient organic solar cells. Materials Science in Semiconductor Processing, 2021, 121, 105345.	4.0	38
96	Carbon nitride 2-D surface as a highly selective electrochemical sensor for V-series nerve agents. Journal of Molecular Liquids, 2020, 311, 113357.	4.9	38
97	Palladium catalyzed synthesis and physical properties of indolo[2,3-b]quinoxalines. Organic and Biomolecular Chemistry, 2014, 12, 6151-6166.	2.8	37
98	Substitutional doping of zirconium-, molybdenum-, ruthenium-, and palladium: An effective method to improve nonlinear optical and electronic property of C20 fullerene. Computational and Theoretical Chemistry, 2017, 1121, 68-75.	2.5	37
99	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mi>A</mml:mi> and - <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi>Phases of Organosiloxane Mesogens. Physical</mml:math 	7.8	36
100	Efficient Cu Decorated Inorganic B ₁₂ P ₁₂ Nanoclusters for Sensing Toxic COCl ₂ Gas: A Detailed DFT Study. Journal of Computational Biophysics and Chemistry, 2021, 20, 85-97.	1.7	36
101	Suppressing the Thermal Metacyclophanediene to Dihydropyrene Isomerization:  Synthesis and Rearrangement of 8,16-Dicyano[2.2]metacyclophane-1,9-diene and Evidence Supporting the Proposed Biradicaloid Mechanism. Journal of Organic Chemistry, 2008, 73, 451-456.	3.2	35
102	Synthesis, structural studies and biological activities of three new 2-(pentadecylthio)-5-aryl-1,3,4-oxadiazoles. Journal of Molecular Structure, 2017, 1129, 50-59.	3.6	35
103	Superhalogen doping: a new and effective approach to design materials with excellent static and dynamic NLO responses. New Journal of Chemistry, 2020, 44, 16358-16369.	2.8	35
104	The C ₂ N surface as a highly selective sensor for the detection of nitrogen iodide from a mixture of NX ₃ (X = Cl, Br, I) explosives. RSC Advances, 2020, 10, 31997-32010.	3.6	35
105	Remarkable static and dynamic NLO response of alkali and superalkali doped macrocyclic [hexa-]thiophene complexes; a DFT approach. RSC Advances, 2021, 11, 4118-4128.	3.6	35
106	DFT study of superhalogen (AlF4) doped boron nitride for tuning their nonlinear optical properties. Optik, 2021, 231, 166464.	2.9	35
107	Superalkali-based alkalides Li3O@[12-crown-4]M (where M= Li, Na, and K) with remarkable static and dynamic NLO properties; A DFT study. Materials Science in Semiconductor Processing, 2022, 138, 106254.	4.0	35
108	Novel acridine-based thiosemicarbazones as â€~turn-on' chemosensors for selective recognition of fluoride anion: a spectroscopic and theoretical study. Royal Society Open Science, 2018, 5, 180646.	2.4	34

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109	Surface functionalization of twisted graphene C32H15 and C104H52 derivatives with alkalis and superalkalis for NLO response; a DFT study. Journal of Molecular Graphics and Modelling, 2021, 102, 107794.	2.4	34
110	First row transition metals decorated boron phosphide nanoclusters as nonlinear optical materials with high thermodynamic stability and enhanced electronic properties; A detailed quantum chemical study. Optics and Laser Technology, 2021, 134, 106570.	4.6	34
111	A first principles study on electrochemical sensing of highly toxic pesticides by using porous C4N nanoflake. Journal of Physics and Chemistry of Solids, 2022, 160, 110345.	4.0	34
112	Spectroscopic and density functional theory studies of 5,7,3′,5′-tetrahydroxyflavanone from the leaves of Olea ferruginea. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 128, 225-230.	3.9	33
113	Synthesis, crystal structures, computational studies and α-amylase inhibition of three novel 1,3,4-oxadiazole derivatives. Journal of Molecular Structure, 2020, 1200, 127085.	3.6	33
114	DFT studies of single and multiple alkali metals doped C24 fullerene for electronics and nonlinear optical applications. Journal of Molecular Graphics and Modelling, 2021, 105, 107867.	2.4	33
115	Substituents effect on thermal electrocyclic reaction of dihydroazulene–vinylheptafulvene photoswitch: a DFT study to improve the photoswitch. Structural Chemistry, 2013, 24, 2115-2126.	2.0	32
116	Synthesis, Density Functional Theory (DFT), Urease Inhibition and Antimicrobial Activities of 5-Aryl Thiophenes Bearing Sulphonylacetamide Moieties. Molecules, 2015, 20, 19914-19928.	3.8	32
117	Synthesis biological screening and molecular docking studies of some tin (IV) Schiff base adducts. Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 65-72.	3.8	32
118	Synthesis, structural properties, DFT studies, antimicrobial activities and DNA binding interactions of two newly synthesized organotin(IV) carboxylates. Journal of Molecular Structure, 2019, 1191, 291-300.	3.6	32
119	DFT investigation of adsorption of nitro-explosives over C2N surface: Highly selective towards trinitro benzene. Journal of Molecular Liquids, 2022, 352, 118652.	4.9	32
120	Photophysical and electrochemical properties and temperature dependent geometrical isomerism in alkyl quinacridonediimines. New Journal of Chemistry, 2014, 38, 752-761.	2.8	31
121	Binding affinity and permeation of X12Y12 nanoclusters for helium and neon. Journal of Molecular Liquids, 2017, 244, 124-134.	4.9	31
122	Synthesis, crystal structures, computational studies and antimicrobial activity of new designed bis((5-aryl-1,3,4-oxadiazol-2-yl)thio)alkanes. Journal of Molecular Structure, 2018, 1155, 403-413.	3.6	31
123	Chemically Modified Quinoidal Oligothiophenes for Enhanced Linear and Third-Order Nonlinear Optical Properties. ACS Omega, 2021, 6, 24602-24613.	3.5	31
124	Expanding the horizons of covalent organic frameworks to electrochemical sensors; A case study of CTF-FUM. Microporous and Mesoporous Materials, 2020, 300, 110146.	4.4	30
125	A Theoretical Framework of Zinc-Decorated Inorganic Mg ₁₂ O ₁₂ Nanoclusters for Efficient COCl ₂ Adsorption: A Step Forward toward the Development of COCl ₂ Sensing Materials. ACS Omega, 2021, 6, 19435-19444.	3.5	30
126	Ab Initio Study of Two-Dimensional Cross-Shaped Non-Fullerene Acceptors for Efficient Organic Solar Cells. ACS Omega, 2022, 7, 10638-10648.	3.5	30

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127	Sensor applications of polypyrrole for oxynitrogen analytes: a DFT study. Journal of Molecular Modeling, 2018, 24, 308.	1.8	29
128	Silver cluster doped graphyne (GY) with outstanding non-linear optical properties. RSC Advances, 2022, 12, 5466-5482.	3.6	29
129	DFT study of transition metals doped calix-4-pyrrole with excellent electronic and non-linear optical properties. Computational and Theoretical Chemistry, 2022, 1214, 113767.	2.5	29
130	Graphene-polyaniline composite as superior electrochemical sensor for detection of cyano explosives. European Polymer Journal, 2020, 138, 109981.	5.4	28
131	Alkaline earth metals serving as source of excess electron for alkaline earth metals to impart large second and third order nonlinear optical response; a DFT study. Journal of Molecular Graphics and Modelling, 2020, 101, 107759.	2.4	28
132	Endohedral metallofullerene electrides of Ca ₁₂ O ₁₂ with remarkable nonlinear optical response. RSC Advances, 2021, 11, 1569-1580.	3.6	28
133	DFT study of superhalogen-doped borophene with enhanced nonlinear optical properties. Journal of Molecular Modeling, 2021, 27, 188.	1.8	28
134	Computational investigation of a covalent triazine framework (CTF-0) as an efficient electrochemical sensor. RSC Advances, 2022, 12, 3909-3923.	3.6	28
135	Diffusion of alkali metal atoms (Li, Na, K) on aluminum nitride and boron nitride nanocages; a density functional theory study. Journal of Molecular Liquids, 2018, 259, 249-259.	4.9	27
136	Design of novel inorganic alkaline earth metal doped aluminum nitride complexes (AEM@Al12N12) with high chemical stability, improved electronic properties and large nonlinear optical response. Optik, 2020, 207, 163792.	2.9	27
137	Janus alkaline earthides with excellent NLO response from sodium and potassium as source of excess electrons; a first principles study. Journal of Molecular Graphics and Modelling, 2020, 100, 107668.	2.4	27
138	Copper Complexes of Bioactive Ligands with Superoxide Dismutase Activity. Mini-Reviews in Medicinal Chemistry, 2013, 13, 1944-1956.	2.4	27
139	Synthesis, molecular structure, quantum mechanical studies and urease inhibition assay of two new isatin derived sulfonylhydrazides. Journal of Molecular Structure, 2017, 1133, 80-89.	3.6	26
140	Change in the electronic and nonlinear optical properties of Fullerene through its incorporation with Sc-, Fe-, Cu-, and Zn transition metals. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	26
141	Halides encapsulation in aluminum/boron phosphide nanoclusters: An effective strategy for high cell voltage in Na-ion battery. Materials Science in Semiconductor Processing, 2019, 97, 71-79.	4.0	26
142	Effective adsorption of A-series chemical warfare agents on graphdiyne nanoflake: a DFT study. Journal of Molecular Modeling, 2021, 27, 117.	1.8	26
143	Designing of Inorganic Al ₁₂ N ₁₂ Nanocluster with Fe, Co, Ni, Cu and Zn Metals for Efficient Hydrogen Storage Materials. Journal of Computational Biophysics and Chemistry, 2021, 20, 359-375.	1.7	26
144	Demonstrating the Potential of Alkali Metal-Doped Cyclic C ₆ O ₆ Li ₆ Organometallics as Electrides and High-Performance NLO Materials. ACS Omega, 2021, 6, 29852-29861.	3.5	26

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145	A Theoretical Perspective on Strategies for Modeling High Performance Nonlinear Optical Materials. Frontiers in Materials, 2021, 8, .	2.4	26
146	Design of liquid crystals with †de Vries-like' properties: carbosilane-terminated 5-phenylpyrimidine mesogens suitable for chevron-free FLC formulations. Journal of Materials Chemistry C, 2014, 2, 4581-4589.	5.5	25
147	Spectral and electronic properties of ï€-conjugated oligomers and polymers of Poly (o-chloroaniline-co-o-toluidine) calculated with density functional theory. Synthetic Metals, 2015, 205, 153-163.	3.9	25
148	Antiradical, antimicrobial and enzyme inhibition evaluation of sulfonamide derived esters; synthesis, X-Ray analysis and DFT studies. Journal of Molecular Structure, 2019, 1175, 379-388.	3.6	25
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