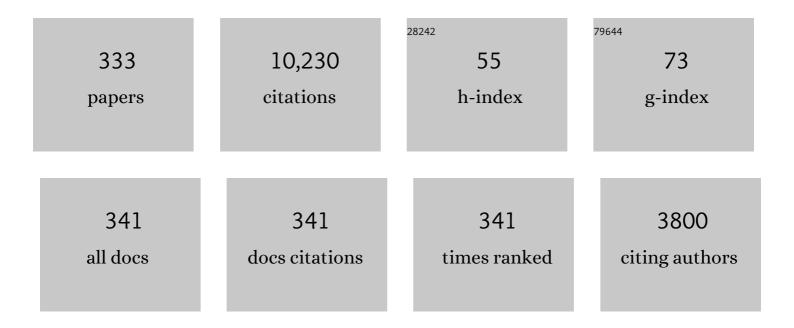
List of Publications by Year in descending order

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Κηποςμίο Δλιιβ

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | DFT Study of Polyaniline NH <sub>3</sub> , CO <sub>2</sub> , and CO Gas Sensors: Comparison with<br>Recent Experimental Data. Journal of Physical Chemistry C, 2013, 117, 23701-23711.   | 1.5 | 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.  | 2.8 | 151       |
| 3  | Doping and Dedoping Processes of Polypyrrole: DFT Study with Hybrid Functionals. Journal of Physical Chemistry C, 2014, 118, 17819-17830.  | 1.5 | 122       |
| 4  | Are phosphide nano-cages better than nitride nano-cages? A kinetic, thermodynamic and non-linear<br>optical properties study of alkali metal encapsulated X <sub>12</sub> Y <sub>12</sub> nano-cages.<br>Journal of Materials Chemistry C, 2016, 4, 10919-10934. | 2.7 | 122       |
| 5  | Designing Threeâ€dimensional (3D) Nonâ€Fullerene Small Molecule Acceptors with Efficient Photovoltaic<br>Parameters. ChemistrySelect, 2018, 3, 12797-12804.  | 0.7 | 119       |
| 6  | Adsorption of Phosgene Gas on Pristine and Copper-Decorated B <sub>12</sub> N <sub>12</sub><br>Nanocages: A Comparative DFT Study. ACS Omega, 2020, 5, 7641-7650.  | 1.6 | 114       |
| 7  | Theoretical insight of polypyrrole ammonia gas sensor. Synthetic Metals, 2013, 172, 14-20.   | 2.1 | 105       |
| 8  | Superalkalis as a source of diffuse excess electrons in newly designed inorganic electrides with<br>remarkable nonlinear response and deep ultraviolet transparency: A DFT study. Applied Surface<br>Science, 2019, 483, 1118-1128.                              | 3.1 | 105       |
| 9  | Enhanced electronic and non-linear optical properties of alkali metal (Li, Na, K) doped boron nitride<br>nano-cages. Journal of Alloys and Compounds, 2016, 687, 976-983.  | 2.8 | 102       |
| 10 | Ni adsorption on Al12P12 nano-cage: A DFT study. Journal of Alloys and Compounds, 2016, 678, 317-324.  | 2.8 | 102       |
| 11 | Opto-electronic properties of non-fullerene fused-undecacyclic electron acceptors for organic solar cells. Computational Materials Science, 2019, 159, 150-159.  | 1.4 | 102       |
| 12 | Designing of benzodithiophene core-based small molecular acceptors for efficient non-fullerene<br>organic solar cells. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021,<br>244, 118873.  | 2.0 | 102       |
| 13 | Enhancement in hydrogen molecule adsorption on B12N12 nano-cluster by decoration of nickel.<br>International Journal of Hydrogen Energy, 2016, 41, 22182-22191.  | 3.8 | 100       |
| 14 | Enhancement in Photovoltaic Properties of <i>N</i> , <i>N</i> â€diethylaniline based Donor Materials by<br>Bridging Core Modifications for Efficient Solar Cells. ChemistrySelect, 2020, 5, 5022-5034.   | 0.7 | 95        |
| 15 | Molecular and Electronic Structure Elucidation of Polypyrrole Gas Sensors. Journal of Physical<br>Chemistry C, 2015, 119, 15994-16003.   | 1.5 | 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.   | 2.7 | 92        |
| 17 | Nonlinear optical and electronic properties of Cr-, Ni-, and Ti- substituted C 20 fullerenes: A<br>quantum-chemical study. Materials Research Bulletin, 2018, 97, 399-404.   | 2.7 | 91        |
| 18 | Design of Liquid Crystals with "de Vries-like―Properties: Frustration between SmA- and<br>SmC-Promoting Elements. Journal of the American Chemical Society, 2010, 132, 364-370.  | 6.6 | 88        |

| #  | Article   | IF               | CITATIONS                 |
|----|---|------------------|---------------------------|
| 19 | Adsorption of thiophene on the surfaces of X 12 Y 12 (X = Al, B, and Y = N,P) nanoclusters; A DFT study.<br>Journal of Molecular Liquids, 2017, 238, 303-309.   | 2.3              | 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.  | 1.5              | 87                        |
| 21 | Density functional theory study of palladium cluster adsorption on a graphene support. RSC<br>Advances, 2020, 10, 20595-20607.  | 1.7              | 86                        |
| 22 | Density Functional Theory Study of Poly( <i>o</i> -phenylenediamine) Oligomers. Journal of Physical<br>Chemistry C, 2013, 117, 4069-4078.   | 1.5              | 83                        |
| 23 | Adsorption of pyrrole on Al12N12, Al12P12, B12N12, and B12P12 fullerene-like nano-cages; a first principles study. Vacuum, 2016, 131, 135-141.  | 1.6              | 83                        |
| 24 | Designing indacenodithiophene based non-fullerene acceptors with a donor–acceptor combined bridge for organic solar cells. RSC Advances, 2019, 9, 3605-3617.  | 1.7              | 83                        |
| 25 | Synthesis, Crystal Structures and Spectroscopic Properties of Triazine-Based Hydrazone Derivatives; A<br>Comparative Experimental-Theoretical Study. Molecules, 2015, 20, 5851-5874.  | 1.7              | 80                        |
| 26 | Remarkable nonlinear optical response of alkali metal doped aluminum phosphide and boron<br>phosphide nanoclusters. Journal of Molecular Liquids, 2018, 271, 51-64.   | 2.3              | 80                        |
| 27 | Adsorption behaviour of chronic blistering agents on graphdiyne; excellent correlation among SAPT,<br>reduced density gradient (RDG) and QTAIM analyses. Journal of Molecular Liquids, 2020, 316, 113860.                           | 2.3              | 79                        |
| 28 | The First Zn <sup>II</sup> atalyzed Oxidative Amidation of Benzyl Alcohols with Amines under<br>Solventâ€Free Conditions. European Journal of Organic Chemistry, 2013, 2013, 2783-2787.   | 1.2              | 78                        |
| 29 | Highly selective acridinium based cyanine dyes for the detection of DNA base pairs (adenine, cytosine,) Tj ETQq1  | 1 0.7843<br>1.1  | 14.rgBT /Ove              |
| 30 | Designing alkoxy-induced based high performance near infrared sensitive small molecule acceptors<br>for organic solar cells. Journal of Molecular Liquids, 2020, 305, 112829.   | 2.3              | 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.   | 1.4              | 73                        |
| 32 | Design of novel superalkali doped silicon carbide nanocages with giant nonlinear optical response.<br>Optics and Laser Technology, 2020, 122, 105855.   | 2.2              | 73                        |
| 33 | Therapeutic potential of graphitic carbon nitride as a drug delivery system for cisplatin (anticancer) Tj ETQq1 1 0.  | .784314 r<br>1.5 | gBŢ <sub>2</sub> /Overloc |
| 34 | Designing Novel Zn-Decorated Inorganic B <sub>12</sub> P <sub>12</sub> Nanoclusters with Promising<br>Electronic Properties: A Step Forward toward Efficient CO <sub>2</sub> Sensing Materials. ACS<br>Omega, 2020, 5, 15547-15556. | 1.6              | 71                        |
| 35 | Nitrogenated holey graphene (C2N) surface as highly selective electrochemical sensor for ammonia.<br>Journal of Molecular Liquids, 2019, 296, 111929.   | 2.3              | 69                        |
| 36 | Theoretical study on novel superalkali doped graphdiyne complexes: Unique approach for the<br>enhancement of electronic and nonlinear optical response. Journal of Molecular Graphics and<br>Modelling, 2020, 97, 107573.           | 1.3              | 68                        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Coordination of nickel atoms with Al12X12 (XÂ=ÂN, P) nanocages enhances H2 adsorption: A surface<br>study by DFT. Vacuum, 2016, 133, 70-80.   | 1.6 | 67        |
| 38 | Fine Tuning the Optoelectronic Properties of Triphenylamine Based Donor Molecules for Organic<br>Solar Cells. Zeitschrift Fur Physikalische Chemie, 2017, 231, 1127-1139.   | 1.4 | 67        |
| 39 | High sensitivity of polypyrrole sensor for uric acid over urea, acetamide and sulfonamide: A density<br>functional theory study. Synthetic Metals, 2018, 235, 49-60.  | 2.1 | 66        |
| 40 | Theoretical study on design of novel superalkalis doped graphdiyne: A new donor–acceptor (D-π-A)<br>strategy for enhancing NLO response. Applied Surface Science, 2019, 492, 255-263.   | 3.1 | 66        |
| 41 | Cyclic versus straight chain oligofuran as sensor: A detailed DFT study. Journal of Molecular<br>Graphics and Modelling, 2020, 97, 107569.  | 1.3 | 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.  | 4.1 | 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.   | 1.1 | 65        |
| 44 | Silver-graphene quantum dots based electrochemical sensor for trinitrotoluene and p-nitrophenol.<br>Journal of Molecular Liquids, 2020, 306, 112878.  | 2.3 | 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.  | 2.2 | 64        |
| 46 | Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of<br>N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonohydrazine. Spectrochimica Acta -<br>Part A: Molecular and Biomolecular Spectroscopy, 2015, 142, 364-374. | 2.0 | 63        |
| 47 | Theoretical study of the non linear optical properties of alkali metal (Li, Na, K) doped aluminum nitride<br>nanocages. RSC Advances, 2016, 6, 94228-94235.   | 1.7 | 62        |
| 48 | Synthesis, characterisation, optical and nonlinear optical properties of thiazole and benzothiazole derivatives: a dual approach. Molecular Simulation, 2018, 44, 1191-1199.  | 0.9 | 62        |
| 49 | Transition metal doping: a new and effective approach for remarkably high nonlinear optical response<br>in aluminum nitride nanocages. New Journal of Chemistry, 2018, 42, 6976-6989.   | 1.4 | 61        |
| 50 | Phytochemical, spectroscopic and density functional theory study of Diospyrin, and non-bonding<br>interactions of Diospyrin with atmospheric gases. Spectrochimica Acta - Part A: Molecular and<br>Biomolecular Spectroscopy, 2015, 141, 71-79.                         | 2.0 | 60        |
| 51 | DFT study of the therapeutic potential of phosphorene as a new drug-delivery system to treat cancer.<br>RSC Advances, 2019, 9, 24325-24332.   | 1.7 | 58        |
| 52 | Designing dithienothiophene (DTT)-based donor materials with efficient photovoltaic parameters for<br>organic solar cells. Journal of Molecular Modeling, 2019, 25, 222.  | 0.8 | 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.  | 1.9 | 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.  | 2.3 | 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.                               | 1.4 | 58        |
| 56 | Density functional theory and phytochemical study of Pistagremic acid. Spectrochimica Acta - Part A:<br>Molecular and Biomolecular Spectroscopy, 2014, 118, 210-214.                              | 2.0 | 55        |
| 57 | Detailed surface study of adsorbed nickel on Al12N12 nano-cage. Thin Solid Films, 2016, 612, 179-185.   | 0.8 | 55        |
| 58 | Adsorption properties of acetylene and ethylene molecules onto pristine and nickel-decorated Al 12 N<br>12 nanoclusters. Materials Chemistry and Physics, 2017, 194, 337-344.                     | 2.0 | 55        |
| 59 | Design of donor–acceptor–donor (D–A–D) type small molecule donor materials with efficient<br>photovoltaic parameters. International Journal of Quantum Chemistry, 2017, 117, e25363.              | 1.0 | 54        |
| 60 | Extremely large nonlinear optical response and excellent electronic stability of true alkaline<br>earthides based on hexaammine complexant. Journal of Molecular Liquids, 2020, 297, 111899.      | 2.3 | 54        |
| 61 | Density functional theory and phytochemical study of 8-hydroxyisodiospyrin. Journal of Molecular<br>Structure, 2015, 1095, 69-78.   | 1.8 | 53        |
| 62 | Transportation of hydrogen atom and molecule through X 12 Y 12 nano-cages. International Journal of Hydrogen Energy, 2017, 42, 11439-11451.   | 3.8 | 53        |
| 63 | Designing dithienonaphthalene based acceptor materials with promising photovoltaic parameters for organic solar cells. RSC Advances, 2019, 9, 34496-34505.  | 1.7 | 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.                | 1.8 | 51        |
| 65 | Calculation Driven Synthesis of an Excellent Dihydropyrene Negative Photochrome and its<br>Photochemical Properties. Journal of the American Chemical Society, 2011, 133, 4040-4045.              | 6.6 | 50        |
| 66 | How can nickel decoration affect H 2 adsorption on B 12 P 12 nano-heterostructures?. Journal of<br>Molecular Liquids, 2018, 255, 168-175.   | 2.3 | 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.        | 3.8 | 49        |
| 68 | High selectivity of cyclic tetrapyrrole over tetrafuran and tetrathiophene toward toxic chemicals; A<br>first-principles study. Microporous and Mesoporous Materials, 2020, 299, 110126.          | 2.2 | 48        |
| 69 | Therapeutic potential of graphyne as a new drug-delivery system for daunorubicin to treat cancer: A<br>DFT study. Journal of Molecular Liquids, 2021, 336, 116327.                                | 2.3 | 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. | 1.3 | 47        |
| 71 | Designing of non-fullerene 3D star-shaped acceptors for organic solar cells. Journal of Molecular<br>Modeling, 2019, 25, 129.   | 0.8 | 47        |
| 72 | Combined experimental and theoretical study of poly(aniline-co-pyrrole) oligomer. Polymer, 2015, 72, 30-39.   | 1.8 | 46        |

| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Adamanzane based alkaline earthides with excellent nonlinear optical response and ultraviolet transparency. Optics and Laser Technology, 2020, 129, 106298.   | 2.2 | 46        |
| 74 | Enhanced linear and nonlinear optical response of superhalogen (Al7) doped graphitic carbon nitride<br>(g-C3N4). Optik, 2021, 226, 165923.  | 1.4 | 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.  | 1.4 | 45        |
| 76 | High sensitivity of graphdiyne nanoflake toward detection of phosgene, thiophosgene and<br>phosogenoxime; a first-principles study. Journal of Molecular Graphics and Modelling, 2020, 100,<br>107658.                                    | 1.3 | 45        |
| 77 | Zinc-Doped Boron Phosphide Nanocluster as Efficient Sensor for SO <sub>2</sub> . Journal of Chemistry, 2020, 2020, 1-12.  | 0.9 | 45        |
| 78 | Significant nonlinear optical response of alkaline earth metals doped beryllium and magnesium oxide nanocages. Materials Chemistry and Physics, 2020, 242, 122507.  | 2.0 | 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.   | 1.1 | 43        |
| 80 | Remarkable second and third order nonlinear optical properties of organometallic<br>C <sub>6</sub> Li <sub>6</sub> –M <sub>3</sub> O electrides. New Journal of Chemistry, 2020, 44,<br>9822-9829.  | 1.4 | 43        |
| 81 | Outstanding NLO response of thermodynamically stable single and multiple alkaline earth metals doped C20 fullerene. Journal of Molecular Liquids, 2020, 305, 112875.  | 2.3 | 43        |
| 82 | Bithieno Thiophene-Based Small Molecules for Application as Donor Materials for Organic Solar<br>Cells and Hole Transport Materials for Perovskite Solar Cells. ACS Omega, 2022, 7, 844-862.  | 1.6 | 43        |
| 83 | Click one pot synthesis, spectral analyses, crystal structures, DFT studies and brine shrimp<br>cytotoxicity assay of two newly synthesized 1,4,5-trisubstituted 1,2,3-triazoles. Journal of Molecular<br>Structure, 2016, 1106, 430-439. | 1.8 | 42        |
| 84 | Theoretical Calculations of the Optical and Electronic Properties of Dithienosilole―and<br>Dithiopheneâ€Based Donor Materials for Organic Solar Cells. ChemistrySelect, 2018, 3, 1593-1601.   | 0.7 | 42        |
| 85 | Silver clusters tune up electronic properties of graphene nanoflakes: A comprehensive theoretical study. Journal of Molecular Liquids, 2020, 297, 111902.   | 2.3 | 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.  | 3.9 | 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.  | 0.8 | 40        |
| 88 | Exploration of adsorption behavior, electronic nature and NLO response of hydrogen adsorbed Alkali<br>metals (Li, Na and K) encapsulated Al12N12 nanocages. Journal of Theoretical and Computational<br>Chemistry, 2020, 19, 2050031.     | 1.8 | 40        |
| 89 | Comparative investigation of sensor application of polypyrrole for gaseous analytes. Journal of<br>Physical Organic Chemistry, 2019, 32, e3960.   | 0.9 | 39        |
| 90 | DFT study of superhalogen and superalkali doped graphitic carbon nitride and its non-linear optical<br>properties. RSC Advances, 2021, 11, 7779-7789.   | 1.7 | 39        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Adsorption mechanism of p- aminophenol over silver-graphene composite: A first principles study.<br>Journal of Molecular Liquids, 2021, 341, 117415.  | 2.3 | 39        |
| 92  | Tuning the optoelectronic properties of scaffolds by using variable central core unit and their photovoltaic applications. Chemical Physics Letters, 2021, 782, 139018.   | 1.2 | 39        |
| 93  | Copper-doped Al12N12 nano-cages: potential candidates for nonlinear optical materials. Applied Physics A: Materials Science and Processing, 2018, 124, 1.   | 1.1 | 38        |
| 94  | Alkaline earth metal decorated phosphide nanoclusters for potential applications as high<br>performance NLO materials; A first principle study. Physica E: Low-Dimensional Systems and<br>Nanostructures, 2020, 118, 113906.  | 1.3 | 38        |
| 95  | Isatin-derived non-fullerene acceptors for efficient organic solar cells. Materials Science in<br>Semiconductor Processing, 2021, 121, 105345.  | 1.9 | 38        |
| 96  | Carbon nitride 2-D surface as a highly selective electrochemical sensor for V-series nerve agents.<br>Journal of Molecular Liquids, 2020, 311, 113357.  | 2.3 | 38        |
| 97  | Palladium catalyzed synthesis and physical properties of indolo[2,3-b]quinoxalines. Organic and<br>Biomolecular Chemistry, 2014, 12, 6151-6166.   | 1.5 | 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.                                       | 1.1 | 37        |
| 99  | xmlns:mml="http://www.w3.org/1998/Math/MathML"<br>display="inline">Aand - <mml:math<br>xmlns:mml="http://www.w3.org/1998/Math/MathML"<br/>display="inline"&gt;CPhases of Organosiloxane Mesogens, Physical</mml:math<br>  | 2.9 | 36        |
| 100 | Efficient Cu Decorated Inorganic B <sub>12</sub> P <sub>12</sub> Nanoclusters for Sensing Toxic<br>COCl <sub>2</sub> Gas: A Detailed DFT Study. Journal of Computational Biophysics and Chemistry, 2021,<br>20, 85-97.  | 1.0 | 36        |
| 101 | Suppressing the Thermal Metacyclophanediene to Dihydropyrene Isomerization:  Synthesis and<br>Rearrangement of 8,16-Dicyano[2.2]metacyclophane-1,9-diene and Evidence Supporting the Proposed<br>Biradicaloid Mechanism. Journal of Organic Chemistry, 2008, 73, 451-456. | 1.7 | 35        |
| 102 | Synthesis, structural studies and biological activities of three new<br>2-(pentadecylthio)-5-aryl-1,3,4-oxadiazoles. Journal of Molecular Structure, 2017, 1129, 50-59.   | 1.8 | 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.   | 1.4 | 35        |
| 104 | The C <sub>2</sub> N surface as a highly selective sensor for the detection of nitrogen iodide from a mixture of NX <sub>3</sub> (X = Cl, Br, I) explosives. RSC Advances, 2020, 10, 31997-32010.   | 1.7 | 35        |
| 105 | Remarkable static and dynamic NLO response of alkali and superalkali doped macrocyclic<br>[hexa-]thiophene complexes; a DFT approach. RSC Advances, 2021, 11, 4118-4128.  | 1.7 | 35        |
| 106 | DFT study of superhalogen (AlF4) doped boron nitride for tuning their nonlinear optical properties.<br>Optik, 2021, 231, 166464.  | 1.4 | 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.   | 1.9 | 35        |
| 108 | Novel acridine-based thiosemicarbazones as †̃turn-on' chemosensors for selective recognition of fluoride anion: a spectroscopic and theoretical study. Royal Society Open Science, 2018, 5, 180646.   | 1.1 | 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.  | 1.3 | 34        |
| 110 | First row transition metals decorated boron phosphide nanoclusters as nonlinear optical materials<br>with high thermodynamic stability and enhanced electronic properties; A detailed quantum chemical<br>study. Optics and Laser Technology, 2021, 134, 106570. | 2.2 | 34        |
| 111 | A first principles study on electrochemical sensing of highly toxic pesticides by using porous C4N<br>nanoflake. Journal of Physics and Chemistry of Solids, 2022, 160, 110345.  | 1.9 | 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.  | 2.0 | 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.   | 1.8 | 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.   | 1.3 | 33        |
| 115 | Substituents effect on thermal electrocyclic reaction of dihydroazulene–vinylheptafulvene<br>photoswitch: a DFT study to improve the photoswitch. Structural Chemistry, 2013, 24, 2115-2126.   | 1.0 | 32        |
| 116 | Synthesis, Density Functional Theory (DFT), Urease Inhibition and Antimicrobial Activities of 5-Aryl<br>Thiophenes Bearing Sulphonylacetamide Moieties. Molecules, 2015, 20, 19914-19928.  | 1.7 | 32        |
| 117 | Synthesis biological screening and molecular docking studies of some tin (IV) Schiff base adducts.<br>Journal of Photochemistry and Photobiology B: Biology, 2016, 164, 65-72.   | 1.7 | 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.   | 1.8 | 32        |
| 119 | DFT investigation of adsorption of nitro-explosives over C2N surface: Highly selective towards trinitro benzene. Journal of Molecular Liquids, 2022, 352, 118652.  | 2.3 | 32        |
| 120 | Photophysical and electrochemical properties and temperature dependent geometrical isomerism in alkyl quinacridonediimines. New Journal of Chemistry, 2014, 38, 752-761.   | 1.4 | 31        |
| 121 | Binding affinity and permeation of X12Y12 nanoclusters for helium and neon. Journal of Molecular<br>Liquids, 2017, 244, 124-134.   | 2.3 | 31        |
| 122 | Synthesis, crystal structures, computational studies and antimicrobial activity of new designed<br>bis((5-aryl-1,3,4-oxadiazol-2-yl)thio)alkanes. Journal of Molecular Structure, 2018, 1155, 403-413.   | 1.8 | 31        |
| 123 | Chemically Modified Quinoidal Oligothiophenes for Enhanced Linear and Third-Order Nonlinear<br>Optical Properties. ACS Omega, 2021, 6, 24602-24613.  | 1.6 | 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.  | 2.2 | 30        |
| 125 | A Theoretical Framework of Zinc-Decorated Inorganic Mg <sub>12</sub> O <sub>12</sub> Nanoclusters for Efficient COCl <sub>2</sub> Adsorption: A Step Forward toward the Development of COCl <sub>2</sub> Sensing Materials. ACS Omega, 2021, 6, 19435-19444.     | 1.6 | 30        |
| 126 | Ab Initio Study of Two-Dimensional Cross-Shaped Non-Fullerene Acceptors for Efficient Organic Solar<br>Cells. ACS Omega, 2022, 7, 10638-10648.   | 1.6 | 30        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 127 | Sensor applications of polypyrrole for oxynitrogen analytes: a DFT study. Journal of Molecular<br>Modeling, 2018, 24, 308.   | 0.8 | 29        |
| 128 | Silver cluster doped graphyne (GY) with outstanding non-linear optical properties. RSC Advances, 2022, 12, 5466-5482.  | 1.7 | 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.   | 1.1 | 29        |
| 130 | Graphene-polyaniline composite as superior electrochemical sensor for detection of cyano explosives. European Polymer Journal, 2020, 138, 109981.  | 2.6 | 28        |
| 131 | Alkaline earth metals serving as source of excess electron for alkaline earth metals to impart large<br>second and third order nonlinear optical response; a DFT study. Journal of Molecular Graphics and<br>Modelling, 2020, 101, 107759. | 1.3 | 28        |
| 132 | Endohedral metallofullerene electrides of Ca <sub>12</sub> O <sub>12</sub> with remarkable nonlinear optical response. RSC Advances, 2021, 11, 1569-1580.  | 1.7 | 28        |
| 133 | DFT study of superhalogen-doped borophene with enhanced nonlinear optical properties. Journal of<br>Molecular Modeling, 2021, 27, 188.   | 0.8 | 28        |
| 134 | Computational investigation of a covalent triazine framework (CTF-0) as an efficient electrochemical sensor. RSC Advances, 2022, 12, 3909-3923.  | 1.7 | 28        |
| 135 | Diffusion of alkali metal atoms (Li, Na, K) on aluminum nitride and boron nitride nanocages; a density<br>functional theory study. Journal of Molecular Liquids, 2018, 259, 249-259.   | 2.3 | 27        |
| 136 | Design of novel inorganic alkaline earth metal doped aluminum nitride complexes (AEM@Al12N12) with<br>high chemical stability, improved electronic properties and large nonlinear optical response. Optik,<br>2020, 207, 163792.           | 1.4 | 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.                                    | 1.3 | 27        |
| 138 | Copper Complexes of Bioactive Ligands with Superoxide Dismutase Activity. Mini-Reviews in Medicinal<br>Chemistry, 2013, 13, 1944-1956.   | 1.1 | 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.  | 1.8 | 26        |
| 140 | Change in the electronic and nonlinear optical properties of Fullerene through its incorporation<br>with Sc-, Fe-, Cu-, and Zn transition metals. Applied Physics A: Materials Science and Processing, 2019,<br>125, 1.                    | 1.1 | 26        |
| 141 | Halides encapsulation in aluminum/boron phosphide nanoclusters: An effective strategy for high cell<br>voltage in Na-ion battery. Materials Science in Semiconductor Processing, 2019, 97, 71-79.  | 1.9 | 26        |
| 142 | Effective adsorption of A-series chemical warfare agents on graphdiyne nanoflake: a DFT study.<br>Journal of Molecular Modeling, 2021, 27, 117.  | 0.8 | 26        |
| 143 | Designing of Inorganic Al <sub>12</sub> N <sub>12</sub> Nanocluster with Fe, Co, Ni, Cu and Zn Metals for Efficient Hydrogen Storage Materials. Journal of Computational Biophysics and Chemistry, 2021, 20, 359-375.                      | 1.0 | 26        |
| 144 | Demonstrating the Potential of Alkali Metal-Doped Cyclic<br>C <sub>6</sub> O <sub>6</sub> Li <sub>6</sub> Organometallics as Electrides and High-Performance<br>NLO Materials. ACS Omega, 2021, 6, 29852-29861.                            | 1.6 | 26        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 145 | A Theoretical Perspective on Strategies for Modeling High Performance Nonlinear Optical Materials.<br>Frontiers in Materials, 2021, 8, .   | 1.2 | 26        |
| 146 | Design of liquid crystals with â€~de Vries-like' properties: carbosilane-terminated 5-phenylpyrimidine<br>mesogens suitable for chevron-free FLC formulations. Journal of Materials Chemistry C, 2014, 2,<br>4581-4589.  | 2.7 | 25        |
| 147 | Spectral and electronic properties of π-conjugated oligomers and polymers of Poly<br>(o-chloroaniline-co-o-toluidine) calculated with density functional theory. Synthetic Metals, 2015,<br>205, 153-163.  | 2.1 | 25        |
| 148 | Antiradical, antimicrobial and enzyme inhibition evaluation of sulfonamide derived esters; synthesis,<br>X-Ray analysis and DFT studies. Journal of Molecular Structure, 2019, 1175, 379-388.  | 1.8 | 25        |
| 149 | A New Strategy of bi-Alkali Metal Doping to Design Boron Phosphide Nanocages of High Nonlinear<br>Optical Response with Better Thermodynamic Stability. Journal of Inorganic and Organometallic<br>Polymers and Materials, 2021, 31, 3062-3076.                          | 1.9 | 25        |
| 150 | Isolation, spectroscopic and density functional theory studies of<br>7-(4-methoxyphenyl)-9H-furo[2,3-f]chromen-9-one: A new flavonoid from the bark of Millettia<br>ovalifolia. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 146, 24-32. | 2.0 | 24        |
| 151 | Spectroscopic and density functional theory studies of 7-hydroxy-3′-methoxyisoflavone: A new<br>isoflavone from the seeds of Indigofera heterantha (Wall). Spectrochimica Acta - Part A: Molecular<br>and Biomolecular Spectroscopy, 2015, 148, 375-381.                 | 2.0 | 24        |
| 152 | DFT study of boron trichloride adsorption on the surface of<br>Al <sub>12</sub> N <sub>12</sub> nanocluster. Molecular Physics, 2017, 115, 879-884.  | 0.8 | 24        |
| 153 | DFT study of acceleration of electrocyclization in photochromes under radical cationic conditions:<br>Comparison with recent experimental data. Tetrahedron, 2017, 73, 3521-3528.  | 1.0 | 24        |
| 154 | Efficient Synthesis of Novel Pyridine-Based Derivatives via Suzuki Cross-Coupling Reaction of<br>Commercially Available 5-Bromo-2-methylpyridin-3-amine: Quantum Mechanical Investigations and<br>Biological Activities. Molecules, 2017, 22, 190.                       | 1.7 | 24        |
| 155 | Nano-porous C4N as a toxic pesticide's scavenger: A quantum chemical approach. Journal of<br>Molecular Graphics and Modelling, 2022, 111, 108078.  | 1.3 | 24        |
| 156 | Synthesis, characterization and density functional theory study of some new 2-anilinothiazoles.<br>Journal of Molecular Structure, 2014, 1072, 221-227.  | 1.8 | 23        |
| 157 | In Silico Designing of <b>Mg<sub>12</sub>O<sub>12</sub></b> Nanoclusters with a Late Transition<br>Metal for NO <sub>2</sub> Adsorption: An Efficient Approach toward the Development of<br>NO <sub>2</sub> Sensing Materials. ACS Omega, 2021, 6, 14191-14199.          | 1.6 | 23        |
| 158 | Superalkali (Li2F, Li3F) doped Al12N12 electrides with enhanced static, dynamic nonlinear optical responses and refractive indices. Materials Science in Semiconductor Processing, 2022, 143, 106518.  | 1.9 | 23        |
| 159 | Optimized nonlinear optical (NLO) response of silicon carbide nanosheet by alkali metals doping: a DFT<br>insight. European Physical Journal Plus, 2022, 137, 1.   | 1.2 | 23        |
| 160 | Synthesis and Properties of 5,7â€Dihydropyrido[3,2â€ <i>b</i> :5,6â€ <i>b′</i> ]diindoles. European Journal of<br>Organic Chemistry, 2015, 2015, 1007-1019.  | 1.2 | 22        |
| 161 | Interaction of Graphene Quantum Dots with Oligothiophene: A Comprehensive Theoretical Study.<br>Journal of Physical Chemistry C, 2019, 123, 29556-29570.   | 1.5 | 22        |
| 162 | Nonlinear optical response of sodium based superalkalis decorated graphdiyne surface: A DFT study.<br>Optik, 2020, 218, 165033.  | 1.4 | 22        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 163 | First example of lanthanum as dopant on Al12N12 and Al12P12 nanocages for improved electronic and nonlinear optical properties with high stability. Materials Science in Semiconductor Processing, 2021, 135, 106122.   | 1.9 | 22        |
| 164 | Face specific doping of Janus all-cis-1,2,3,4,5,6-hexafluorocyclohexane with superalkalis and alkaline<br>earth metals leads to enhanced static and dynamic NLO responses. Journal of Physics and Chemistry of<br>Solids, 2022, 160, 110361.                      | 1.9 | 22        |
| 165 | Acridinedione as selective flouride ion chemosensor: a detailed spectroscopic and quantum mechanical investigation. RSC Advances, 2018, 8, 1993-2003.   | 1.7 | 21        |
| 166 | Nonlinear optical, IR and orbital properties of Ni doped MgO nanoclusters: A DFT investigation.<br>Computational and Theoretical Chemistry, 2018, 1138, 39-47.  | 1.1 | 21        |
| 167 | Turning diamondoids into nonlinear optical materials by alkali metal Substitution: A DFT investigation. Optics and Laser Technology, 2021, 142, 107231.   | 2.2 | 21        |
| 168 | Covalent triazine framework (CTF-0) surface as a smart sensing material for the detection of CWAs and industrial pollutants. Materials Science in Semiconductor Processing, 2022, 139, 106334.  | 1.9 | 21        |
| 169 | Synthesis of Functionalized Indolizines by Lewis Acidâ€Mediated Cyclocondensation of<br>3â€(Pyridinâ€2â€yl)â€propiolates with Enones. Advanced Synthesis and Catalysis, 2012, 354, 1163-1169.   | 2.1 | 20        |
| 170 | Syntheses of Dihydropyrene–Cyclophanediene Negative Photochromes Containing Internal Alkenyl<br>and Alkynyl Groups and Comparison of Their Photochemical and Thermochemical Properties. Journal<br>of Organic Chemistry, 2014, 79, 664-678.                       | 1.7 | 20        |
| 171 | Thiobiuret based Ni(II) and Co(III) complexes: Synthesis, molecular structures and DFT studies. Journal of Molecular Structure, 2017, 1148, 388-396.  | 1.8 | 20        |
| 172 | Benchmark study of UV/Visible spectra of coumarin derivatives by computational approach. Journal of<br>Molecular Structure, 2017, 1130, 603-616.  | 1.8 | 20        |
| 173 | Carbonic anhydrase inhibition of Schiff base derivative of imino-methyl-naphthalen-2-ol: Synthesis, structure elucidation, molecular docking, dynamic simulation and density functional theory calculations. Journal of Molecular Structure, 2018, 1156, 193-200. | 1.8 | 20        |
| 174 | Receptorâ€Spacerâ€Fluorophore Based Coumarinâ€Thiosemicarbazones as Anion Chemosensors with "Turn<br>on―Response: Spectroscopic and Computational (DFT) Studies. ChemistrySelect, 2018, 3, 7633-7642.   | 0.7 | 20        |
| 175 | Theoretical modification of C24 fullerene with single and multiple alkaline earth metal atoms for their potential use as NLO materials. Journal of Physics and Chemistry of Solids, 2021, 152, 109972.  | 1.9 | 20        |
| 176 | Regio- and stereoselective functionalization of alkenes with emphasis on mechanistic insight and sustainability concerns. Journal of Saudi Chemical Society, 2021, 25, 101260.  | 2.4 | 20        |
| 177 | Remarkable nonlinear optical response of Mn@C20 (M = Na & K and n = 1–6); a DFT outcome.<br>Materials Science in Semiconductor Processing, 2022, 138, 106269.   | 1.9 | 20        |
| 178 | One Pot Selective Arylation of 2-Bromo-5-Chloro Thiophene; Molecular Structure Investigation via<br>Density Functional Theory (DFT), X-ray Analysis, and Their Biological Activities. International Journal<br>of Molecular Sciences, 2016, 17, 912.              | 1.8 | 19        |
| 179 | Density functional theory study of geometric and electronic properties of full range of bimetallic<br>AgnYm (nÂ+ÂmÂ=Â10) clusters. Journal of Alloys and Compounds, 2017, 705, 232-246.   | 2.8 | 19        |
| 180 | Permeability and storage ability of inorganic X12Y12 fullerenes for lithium atom and ion. Chemical<br>Physics Letters, 2018, 698, 51-59.  | 1.2 | 19        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | A combined experimental and computational study of<br>2,2'-(diazene-1,2-diylbis(4,1-phenylene))bis(6-(butylamino)-1H-benzo[de]isoquinoline-1,3(2H)-dione):<br>Synthesis, optical and nonlinear optical properties. Optik, 2019, 192, 162952.                               | 1.4 | 19        |
| 182 | Adsorption and sensor applications of C2N surface for G-series and mustard series chemical warfare agents. Microporous and Mesoporous Materials, 2021, 317, 110984.  | 2.2 | 19        |
| 183 | Oxacarbon superalkali C3X3Y3 (XÂ= O, S and YÂ= Li, Na, K) clusters as excess electron compounds for<br>remarkable static and dynamic NLO response. Journal of Molecular Graphics and Modelling, 2021, 106,<br>107922.  | 1.3 | 19        |
| 184 | DFT study of OLi3 and MgF3 doped boron nitride with enhanced nonlinear optical behavior. Journal of<br>Molecular Structure, 2022, 1251, 131934.  | 1.8 | 19        |
| 185 | Synergistic end-capped engineering on non-fused thiophene ring-based acceptors to enhance the photovoltaic properties of organic solar cells. RSC Advances, 2022, 12, 12321-12334.   | 1.7 | 19        |
| 186 | Synthesis, in vitro potential and computational studies on 2-amino-1, 4-dihydropyrimidines as multitarget antibacterial ligands. Medicinal Chemistry Research, 2016, 25, 1877-1894.  | 1.1 | 18        |
| 187 | Palladium(0) catalyzed Suzuki cross-coupling reaction of 2,5-dibromo-3-methylthiophene: selectivity, characterization, DFT studies and their biological evaluations. Chemistry Central Journal, 2018, 12, 49.  | 2.6 | 18        |
| 188 | Role of Pyridine Nitrogen in Palladium-Catalyzed Imine Hydrolysis: A Case Study of<br>(E)-1-(3-bromothiophen-2-yl)-N-(4-methylpyridin-2-yl)methanimine. Molecules, 2019, 24, 2609.   | 1.7 | 18        |
| 189 | Benchmark DFT studies on C–CN homolytic cleavage and screening the substitution effect on bond dissociation energy. Journal of Molecular Modeling, 2019, 25, 47.   | 0.8 | 18        |
| 190 | Rational design of naphthalimide based small molecules non-fullerene acceptors for organic solar cells. Computational and Theoretical Chemistry, 2020, 1187, 112916.   | 1.1 | 18        |
| 191 | Permeation selectivity of alkali metal ions through crown ether based ion channels. Journal of<br>Molecular Liquids, 2020, 302, 112577.  | 2.3 | 18        |
| 192 | Theoretical investigation of halides encapsulated Na@B40 nanocages for potential applications as anodes for sodium ion batteries. Materials Science in Semiconductor Processing, 2021, 121, 105437.  | 1.9 | 18        |
| 193 | Nonlinear optical response of first-row transition metal doped Al12P12 nanoclusters; a first-principles study. Journal of Physics and Chemistry of Solids, 2021, 151, 109914.  | 1.9 | 18        |
| 194 | Quantum chemical study on sensing of NH3, NF3, NCl3 and NBr3 by using cyclic tetrapyrrole.<br>Computational and Theoretical Chemistry, 2021, 1199, 113221.   | 1.1 | 18        |
| 195 | Study of nonlinear optical properties of superhalogen and superalkali doped phosphorene. Journal of<br>Molecular Structure, 2021, 1236, 130348.  | 1.8 | 18        |
| 196 | Sensing of toxic Lewisite (L <sub>1</sub> , L <sub>2</sub> , and L <sub>3</sub> ) molecules by graphdiyne nanoflake using density functional theory calculations and quantum theory of atoms in molecule analysis. Journal of Physical Organic Chemistry, 2021, 34, e4181. | 0.9 | 18        |
| 197 | Exploring the interaction of ionic liquids with Al12N12 and Al12P12 nanocages for better electrode-electrolyte materials in super capacitors. Journal of Molecular Liquids, 2021, 344, 117828.   | 2.3 | 18        |
| 198 | Novel Starâ€Shaped Benzotriindoleâ€Based Nonfullerene Donor Materials: Toward the Development of<br>Promising Photovoltaic Compounds for Highâ€Performance Organic Solar Cells. Energy Technology,<br>2022, 10, .  | 1.8 | 18        |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 199 | Enhancement in non-linear optical properties of carbon nitride (C2N) by doping superalkali (Li3O): A<br>DFT study. Computational and Theoretical Chemistry, 2022, 1211, 113654.   | 1.1 | 18        |
| 200 | First example of vinylbenzene based small photovoltaic molecules: Towards the development of efficient D-ï€-A configured optoelectronic materials for bulk heterojunction solar cells. Physica B: Condensed Matter, 2022, 633, 413769.                      | 1.3 | 18        |
| 201 | Electrochemical sensing of heptazine graphitic C3N4 quantum dot for chemical warfare agents; a quantum chemical approach. Materials Science in Semiconductor Processing, 2022, 148, 106753.   | 1.9 | 18        |
| 202 | Role of dispersion corrected hybrid GGA class in accurately calculating the bond dissociation energy of carbon halogen bond: A benchmark study. Journal of Molecular Structure, 2017, 1150, 447-458.  | 1.8 | 17        |
| 203 | Synthesis, quantum chemical, inÂvitro acetyl cholinesterase inhibition and molecular docking studies<br>of four new coumarin based pyrazolylthiazole nuclei. Journal of Molecular Structure, 2018, 1168,<br>175-186.  | 1.8 | 17        |
| 204 | Highly accurate DFT investigation for triggering the ultra-strong static and dynamic nonlinear<br>optical properties of superalkali doped aminated graphdiyne (NH2-GDY) donor-Ï€-acceptor (D-Ï€-A)<br>quantum dots. Polyhedron, 2022, 215, 115695.          | 1.0 | 17        |
| 205 | Olympicene as a high-performance sensor for lung irritants: A dispersion corrected DFT insight.<br>Materials Science in Semiconductor Processing, 2022, 144, 106620.  | 1.9 | 17        |
| 206 | DFT study of alkali and alkaline earth metal-doped benzocryptand with remarkable NLO properties. RSC<br>Advances, 2022, 12, 16029-16045.  | 1.7 | 17        |
| 207 | Facile synthesis of N- (4-bromophenyl)-1- (3-bromothiophen-2-yl)methanimine derivatives via Suzuki<br>cross-coupling reaction: their characterization and DFT studies. Chemistry Central Journal, 2018, 12,<br>84.  | 2.6 | 16        |
| 208 | Silver cluster (Ag6) decorated coronene as non-enzymatic sensor for glucose and H2O2. Journal of<br>Molecular Graphics and Modelling, 2021, 103, 107824.  | 1.3 | 16        |
| 209 | DFT study on the sensitivity of silver-graphene quantum dots for vital and harmful analytes. Journal of Physics and Chemistry of Solids, 2021, 153, 110028.   | 1.9 | 16        |
| 210 | Remarkable electronic and NLO properties of bimetallic superalkali clusters: a DFT study. Journal of Nanostructure in Chemistry, 2022, 12, 529-545.   | 5.3 | 16        |
| 211 | Mechanochemical Transformation of CF <sub>3</sub> Group: Synthesis of Amides and Schiff Bases.<br>Advanced Synthesis and Catalysis, 2021, 363, 5448-5460.   | 2.1 | 16        |
| 212 | Impact of even number of alkaline earth metal doping on the NLO response of C20 nanocluster; a DFT outcome. Computational and Theoretical Chemistry, 2021, 1204, 113386.  | 1.1 | 16        |
| 213 | Zintl based superatom P7M2 (M=Li, Na, K & Be, Mg, Ca) clusters with excellent second and third-order nonlinear optical response. Materials Science in Semiconductor Processing, 2021, 134, 105986.  | 1.9 | 16        |
| 214 | Therapeutic potential of C2N as targeted drug delivery system for fluorouracil and nitrosourea to treat cancer: a theoretical study. Journal of Nanostructure in Chemistry, 2023, 13, 89-102.   | 5.3 | 16        |
| 215 | Computation Assisted Design and Prediction of Alkali-Metal-Centered B12N12 Nanoclusters for<br>Efficient H2 Adsorption: New Hydrogen Storage Materials. Journal of Cluster Science, 2023, 34,<br>1237-1247.   | 1.7 | 16        |
| 216 | Pyrrole versus quinoline formation in the palladium catalyzed reaction of<br>2-alkynyl-3-bromothiophenes and 2-alkynyl-3-bromofurans with anilines. A combined experimental and<br>computational study. Organic and Biomolecular Chemistry, 2012, 10, 9464. | 1.5 | 15        |

| #   | Article   | IF                    | CITATIONS              |
|-----|---|-----------------------|------------------------|
| 217 | A new rosane-type diterpenoid fromStachys parvifloraand its density functional theory studies.<br>Natural Product Research, 2015, 29, 813-819.  | 1.0                   | 15                     |
| 218 | Synthesis of novel metal complexes of 2-((phenyl (2-(4-sulfophenyl) hydrazono) methyl) diazenyl)<br>benzoic acid formazan dyes: Characterization, antimicrobial and optical properties studies on leather.<br>Journal of Molecular Structure, 2019, 1175, 73-89.        | 1.8                   | 15                     |
| 219 | Theoretical investigation of superalkali clusters M2OCN and M2NCO (where M=Li, Na, K) as excess electron system with significant static and dynamic nonlinear optical response. Optik, 2021, 227, 166037.   | 1.4                   | 15                     |
| 220 | Influence of bi-alkali metals doping over Al12N12 nanocage on stability and optoelectronic properties:<br>A DFT investigation. Radiation Physics and Chemistry, 2021, 184, 109457.  | 1.4                   | 15                     |
| 221 | Facile synthesis, DNA binding, Urease inhibition, anti-oxidant, molecular docking and DFT studies of 3-(3-Bromo-phenyl)-1-(2-trifluoromethyl-phenyl)-propenone and 3-(3-Bromo-5) Tj ETQq1 1 0.784314 rgBT /Overl  | oc <b>l2.3</b> 0 Tf : | 50 <b>£</b> 577 Td (ch |
| 222 | Silver cluster decorated graphene nanoflakes for selective and accurate detection of nitroaniline isomers; DFT calculations. Materials Science in Semiconductor Processing, 2021, 134, 106023.  | 1.9                   | 15                     |
| 223 | Stable Ion NMR and GIAO-DFT Study of Novel Cations from 8,16-Dicyano[2.2]metacyclophanedienes and from Strategically Substituted/Benzannelated Dihydropyrenes:  Charge-Induced Tropicity Modulation and π-Switching. Journal of Organic Chemistry, 2008, 73, 457-466.   | 1.7                   | 14                     |
| 224 | One-pot synthesis of tetrazole-1,2,5,6-tetrahydronicotinonitriles and cholinesterase inhibition:<br>Probing the plausible reaction mechanism via computational studies. Bioorganic Chemistry, 2016, 65,<br>38-47.   | 2.0                   | 14                     |
| 225 | Exploring the twisted molecular configurations for tuning their optical and nonlinear optical response properties: A quantum chemical approach. Journal of Molecular Graphics and Modelling, 2021, 102, 107766.   | 1.3                   | 14                     |
| 226 | Inorganic electrides of alkali metal doped Zn12O12 nanocage with excellent nonlinear optical response. Journal of Molecular Graphics and Modelling, 2021, 106, 107935.  | 1.3                   | 14                     |
| 227 | Novel microporous B6N6 covalent organic framework (COF) as an electrochemical sensor for the ultra-selective detection of nitroaniline isomers; a DFT outcome. Surfaces and Interfaces, 2021, 27, 101587.   | 1.5                   | 14                     |
| 228 | Enhanced non-linear optical response of calix[4]pyrrole complexant based earthides in the presence of oriented external electric field. Journal of Molecular Liquids, 2022, 350, 118504.  | 2.3                   | 14                     |
| 229 | Adsorption of Industrial Gases (CH <sub>4</sub> , CO <sub>2</sub> , and CO) on Olympicene: A DFT and CCSD(T) Investigation. ACS Omega, 2022, 7, 18852-18860.  | 1.6                   | 14                     |
| 230 | Gas hydrates model for the mechanistic investigation of the Wittig reaction "on water― RSC<br>Advances, 2016, 6, 23448-23458.   | 1.7                   | 13                     |
| 231 | Storage and permeation of hydrogen molecule, atom and ions (H+ and Hâ^') through silicon carbide nanotube; a DFT approach. International Journal of Hydrogen Energy, 2021, 46, 9163-9173.   | 3.8                   | 13                     |
| 232 | M@[12-crown-4] and M@[15-crown-5] where (M=Li, Na, and K); the very first examples of non-conventional one alkali metal-containing alkalides with remarkable static and dynamic NLO response. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 140, 115170. | 1.3                   | 13                     |
| 233 | Sensing behaviour of monocyclic C18 and B9N9 analogues toward chemical warfare agents (CWAs); quantum chemical approach. Surfaces and Interfaces, 2022, 30, 101912.   | 1.5                   | 13                     |
| 234 | Density functional theory study of linear and non-linear optical properties of<br>dihydroazulene-vinylheptafulvene photoswitches. Computational and Theoretical Chemistry, 2016,<br>1095, 1-8.  | 1.1                   | 12                     |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 235 | Novel quinoxaline based chemosensors with selective dual mode of action: nucleophilic addition and host–guest type complex formation. RSC Advances, 2016, 6, 64009-64018.  | 1.7 | 12        |
| 236 | Quantum mechanical investigation on acceleration of electrocyclic reactions through transition metal catalysis. Journal of Organometallic Chemistry, 2016, 808, 78-86.   | 0.8 | 12        |
| 237 | Crystal structure, spectroscopic, electronic, luminescent and nonlinear optical properties of (S)-4-Amino-5-(1-hydroxy-ethyl)-2,4-dihydro-[1,2,4]triazole-3-thione: A combined experimental and DFT study. Journal of Physics and Chemistry of Solids, 2017, 110, 218-226. | 1.9 | 12        |
| 238 | Exploring Li4N and Li4O superalkalis as efficient dopants for the Al12N12 nanocage to design high performance nonlinear optical materials with high thermodynamic stability. Polyhedron, 2021, 200, 115145.  | 1.0 | 12        |
| 239 | Synthesis, characterization, antimicrobial, cytotoxic, DNA-interaction, molecular docking and DFT studies of novel di- and tri-organotin(IV) carboxylates using 3-(3-nitrophenyl)2-methylpropenoic acid. Journal of Coordination Chemistry, 2021, 74, 2407-2426.           | 0.8 | 12        |
| 240 | Theoretical and experimental investigation of CO2 capture through choline chloride based supported deep eutectic liquid membranes. Journal of Molecular Liquids, 2021, 335, 116234.  | 2.3 | 12        |
| 241 | Extremely large static and dynamic nonlinear optical response of small superalkali clusters NM3M'<br>(M, M'=Li, Na, K). Journal of Molecular Graphics and Modelling, 2021, 109, 108031.  | 1.3 | 12        |
| 242 | First-principles study for electrochemical sensing of neurotoxin hydrazine derivatives via h-g-C3N4 quantum dot. Surfaces and Interfaces, 2022, 30, 101913.  | 1.5 | 12        |
| 243 | Stereochemical effect of covalent chemistry on the electronic structure and properties of the carbon allotropes and graphene surfaces. Synthetic Metals, 2015, 210, 80-84.   | 2.1 | 11        |
| 244 | Theoretical mechanistic investigation of zinc(ii) catalyzed oxidation of alcohols to aldehydes and esters. RSC Advances, 2016, 6, 31876-31883.   | 1.7 | 11        |
| 245 | Mechanism of Zn(OTf) <sub>2</sub> catalyzed hydroamination–hydrogenation of alkynes with amines:<br>insight from theory. New Journal of Chemistry, 2017, 41, 5082-5090.  | 1.4 | 11        |
| 246 | Accurate theoretical method for homolytic cleavage of C Sn bond: A benchmark approach.<br>Computational and Theoretical Chemistry, 2018, 1140, 134-144.  | 1.1 | 11        |
| 247 | External stimulus controlled recombination of hydrogen in photochromic dithienylethene frustrated lewis pairs. International Journal of Hydrogen Energy, 2019, 44, 31141-31152.  | 3.8 | 11        |
| 248 | Selective detection and removal of picric acid by C <sub>2</sub> N surface from a mixture of nitro-explosives. New Journal of Chemistry, 2020, 44, 18646-18655.  | 1.4 | 11        |
| 249 | Electronic structure of polythiophene gas sensors for chlorinated analytes. Journal of Molecular<br>Modeling, 2020, 26, 44.  | 0.8 | 11        |
| 250 | Carbon-Cobalt Nanostructures as an Efficient Adsorbent of Malachite Green. Nanoscience and<br>Nanotechnology - Asia, 2018, 8, 263-280.   | 0.3 | 11        |
| 251 | Synthesis of 4â€Trifluoromethylpyridines by [5+1] Cyclization of 3â€Hydroxyâ€pentâ€4â€ynâ€1â€ones with Ure<br>Advanced Synthesis and Catalysis, 2013, 355, 576-588.  | 2.1 | 10        |
| 252 | Benchmark study of bond dissociation energy of Si X (X F, Cl, Br, N, O, H and C) bond using density<br>functional theory (DFT). Journal of Molecular Structure, 2017, 1143, 8-19.  | 1.8 | 10        |

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 253 | Synthesis, X-ray crystal structure and spin polarized DFT study of high spin Mn based metal-organic<br>framework. Journal of Molecular Structure, 2019, 1175, 439-444.   | 1.8 | 10        |
| 254 | Comparative study on sensing abilities of polyaniline and graphene polyaniline composite sensors toward methylamine and ammonia. Polymers for Advanced Technologies, 2020, 31, 3351-3360.  | 1.6 | 10        |
| 255 | Hydrogen adsorption on Ge52â^', Ge92â^' and Sn92â^' Zintl clusters: A DFT study. Computational and<br>Theoretical Chemistry, 2021, 1199, 113191.   | 1.1 | 10        |
| 256 | Tuning the optoelectronic properties of superalkali doped phosphorene. Journal of Molecular<br>Graphics and Modelling, 2021, 107, 107973.  | 1.3 | 10        |
| 257 | Germanium-based superatom clusters as excess electron compounds with significant static and dynamic NLO response; a DFT study. RSC Advances, 2021, 12, 365-377.  | 1.7 | 10        |
| 258 | Mixed superalkalis are a better choice than pure superalkalis for B <sub>12</sub> N <sub>12</sub><br>nanocages to design high-performance nonlinear optical materials. Dalton Transactions, 2022, 51,<br>8437-8453.                    | 1.6 | 10        |
| 259 | Liquid crystals with axially chiral 3,3′-dinitro-2,2′,6,6′-tetramethylbiphenyl cores: the lateral shielding<br>effect of bicyclo[2.2.2]octane-1-carboxylate terminal chains. Journal of Materials Chemistry, 2010, 20,<br>6655.        | 6.7 | 9         |
| 260 | Towards thermally stable cyclophanediene-dihydropyrene photoswitches. Journal of Molecular<br>Modeling, 2015, 21, 148.   | 0.8 | 9         |
| 261 | Isolation, spectroscopic and density functional theory of two withanolide glycosides. Journal of<br>Molecular Structure, 2019, 1177, 449-456.  | 1.8 | 9         |
| 262 | Static, dynamic nonlinear optical (NLO) response and electride characteristics of superalkalis doped star like C6S6Li6. Surfaces and Interfaces, 2022, 31, 102044.   | 1.5 | 9         |
| 263 | Remarkable non-linear optical properties of gold cluster doped graphyne (GY): A DFT study. Journal of<br>Molecular Graphics and Modelling, 2022, 114, 108204.  | 1.3 | 9         |
| 264 | Benchmark Density Functional Theory Approach for the Calculation of Bond Dissociation Energies of the M–O <sub>2</sub> Bond: A Key Step in Water Splitting Reactions. ACS Omega, 2022, 7, 20800-20808.                                 | 1.6 | 9         |
| 265 | Density functional theory study of structural, electronic and CO adsorption properties of anionic<br>Scnâ^' (n = 2–13) clusters. Computational and Theoretical Chemistry, 2019, 1163, 112511.  | 1.1 | 8         |
| 266 | Electronic structure of polypyrrole composited with a low percentage of graphene nanofiller.<br>Physical Chemistry Chemical Physics, 2021, 23, 8557-8570.  | 1.3 | 8         |
| 267 | Quantum chemical designing of novel fullerene-free acceptor molecules for organic solar cell applications. Journal of Molecular Modeling, 2022, 28, 67.  | 0.8 | 8         |
| 268 | Shedding light on the second order nonlinear optical responses of commercially available acidic azo dyes for laser applications. Dyes and Pigments, 2022, 202, 110284.   | 2.0 | 8         |
| 269 | Assessment of alkali and alkaline earth metals doped cubanes as high-performance nonlinear optical<br>materials by first-principles study. Journal of Science: Advanced Materials and Devices, 2022, 7, 100457.                        | 1.5 | 8         |
| 270 | Nonfullerene Near-Infrared Sensitive Acceptors "Octacyclic Naphtho[1,2- <i>b</i> :5,6- <i>b</i> ]<br>Dithiophene Core―for Organic Solar Cell Applications: <i>In Silico</i> Molecular Engineering. ACS<br>Omega, 2022, 7, 16716-16727. | 1.6 | 8         |

# ARTICLE IF CITATIONS Nonlinear optical response of 9,10-bis(phenylethynyl)anthracene mediated by electron donating and electron withdrawing substituents: A density functional theory approach. Materials Science in 271 Semiconductor Processing, 2022, 148, 106751. Lanthanum doped corannulenes with enhanced static and dynamic nonlinear optical properties: A 272 1.38 first principle study. Physica B: Condensed Matter, 2022, 641, 414088. Mechanistic insight of TiCl<sub>4</sub>catalyzed formal [3 + 3] cyclization of 1,3-bis(silyl enol) Tj ETQq1 1 0.784314 rgBT /Qverlock The co-crystal of copper(II) phenanthroline chloride complex hydrate with p-aminobenzoic acid: structure, cytotoxicity, thermal analysis, and DFT calculation. Monatshefte FÃ1/4r Chemie, 2021, 152, 7 274 0.9 323-336. Second-order NLO properties and two-state switching effects of transition metal redox complexes of 1.3 iron and cobalt: A DFT study. Journal of Molecular Graphics and Modelling, 2021, 107, 107975. Aromaticities of azines relative to benzene; a theoretical approach through the dimethyldihydropyrene probe. Journal of Physical Organic Chemistry, 2014, 27, 860-866. 276 0.9 6 Benchmark study of structural and vibrational properties of scandium clusters. Journal of 1.8 Molecular Structure, 2017, 1142, 139-147. Designing dibenzosilole and methyl carbazole based donor materials with favourable photovoltaic parameters for bulk heterojunction organic solar cells. Computational and Theoretical Chemistry, 278 1.1 6 2018, 1142, 45-56. Dihydroazulene-vinylheptafulvene based photoswitchable lewis pairs for tunable H2 activation. 279 3.8 International Journal of Hydrogen Energy, 2019, 44, 14780-14795. Isolation, characterization and DFT studies of epoxy ring containing new withanolides from Withania 280 coagulans Dunal. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 217, 2.0 6 113-121. Photo-tunable linear and nonlinear optical response of cyclophanediene-dihydropyrene 1.3 photoswitches. Journal of Molecular Graphics and Modelling, 2019, 88, 261-272. Anticancer evaluation of a manganese complex on HeLa and MCF-7 cancer cells: design, deterministic solvothermal synthesis approach, Hirshfeld analysis, DNA binding, intracellular reactive oxygen 282 2.0 6 species production, electrochemical characterization and density functional theory. Journal of Biomolecular Structure and Dynamics, 2021, 39, 1068-1081 Synthesis, characterization of flavone, isoflavone, and 2,3-dihydrobenzofuran-3-carboxylate and 0.3 density functional theory studies. European Journal of Chemistry, 2015, 6, 305-313. Theoretical Approach to Evaluate the Gas-Sensing Performance of Graphene 284 1.6 6 Nanoribbon/Oligothiophene Composites. ACS Omega, 2022, 7, 2260-2274. Shedding light on the optical and nonlinear optical properties of superalkali-doped borophene. Journal of Molecular Modeling, 2022, 28, 46. Synthesis and DPPH scavenging assay of reserpine analogues, computational studies and in silico docking studies in AChE and BChE responsible for Alzheimer's disease. Brazilian Journal of 286 1.2 5 Pharmaceutical Sciences, 2015, 51, 53-61. Synthesis, structure, spectroscopic and DFT studies of zinc(II) and manganese(II) complexes of 1.0 2-pyridine carboxaldehyde-N-methyl-N-2-pyridyl hydrazone. Polyhedron, 2015, 101, 118-125. Synthesis, Spectral Characterization and Fluorescent Assessment of 1,3,5-Triaryl-2-pyrazoline 288 1.35

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Derivatives: Experimental and Theoretical Studies. Journal of Fluorescence, 2016, 26, 1447-1455.

| #   | Article  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 289 | Theoretical insights into thermal cyclophanediene to dihydropyrene electrocyclic reactions; a comparative study of Woodward Hoffmann allowed and forbidden reactions. Journal of Molecular Modeling, 2016, 22, 81.   | 0.8 | 5         |
| 290 | Density functional theory and surface reactivity study of bimetallic Ag n Y m (n+mÂ= 10) clusters. Solid<br>State Sciences, 2018, 80, 46-64.   | 1.5 | 5         |
| 291 | Permeation of second row neutral elements through Al12P12 and B12P12 nanocages; a first-principles study. Journal of Molecular Graphics and Modelling, 2020, 101, 107748.  | 1.3 | 5         |
| 292 | Cu-doped phosphorene as highly efficient single atom catalyst for CO oxidation: A DFT study.<br>Molecular Catalysis, 2021, 509, 111630.  | 1.0 | 5         |
| 293 | C10F as a potential anode material for alkali-ion batteries; a quantum chemical approach.<br>Computational and Theoretical Chemistry, 2021, 1206, 113470.  | 1.1 | 5         |
| 294 | DFT studies on electrochemical properties of halide ions doped GDY-28 nanoflake for Na-ion battery applications. Materials Science in Semiconductor Processing, 2022, 145, 106651.   | 1.9 | 5         |
| 295 | Ab initio study for superior sensitivity of graphyne nanoflake towards nitrogen halides over<br>ammonia. Journal of Molecular Modeling, 2022, 28, .  | 0.8 | 5         |
| 296 | A Quantum Chemical Study of Outstanding Structural, Electronic and Nonlinear Optical<br>Polarizability of Boron Nitride (B12N12) Doped with Super Salt (P7BaNO3). Journal of Inorganic and<br>Organometallic Polymers and Materials, 0, , .                  | 1.9 | 5         |
| 297 | Aromaticity of azines through dyotropic double hydrogen transfer reaction. Journal of Molecular<br>Modeling, 2014, 20, 2304.   | 0.8 | 4         |
| 298 | Dyotropic rearrangement of bridgehead substituents in closed dithienylethenes; conjugated verses non-conjugated analogues. Journal of Molecular Modeling, 2015, 21, 321.   | 0.8 | 4         |
| 299 | Theoretical mechanistic investigation of zinc(II) catalyzed oxidative amidation of benzyl alcohols with amines. Polyhedron, 2016, 112, 34-42.  | 1.0 | 4         |
| 300 | Enhancement in the mechanical property of NBR/PVC nanocomposite by using sulfur and electron<br>beam curing in the presence of Cloisite 30B nanoclay. Journal of Macromolecular Science - Pure and<br>Applied Chemistry, 2020, 57, 123-130.                  | 1.2 | 4         |
| 301 | Benchmark approach to search of costâ€effective and accurate density functional for homolytic<br>cleavage of C─Mg bond of Grignard reagent. International Journal of Quantum Chemistry, 2020, 120,<br>e26106.  | 1.0 | 4         |
| 302 | Synthesis, single-crystal X-ray diffraction, and in vitro biological evaluation of sodium, cobalt, and<br>tin complexes of o-nitro-/o-methoxyphenylacetic acid: experimental and theoretical investigation.<br>Monatshefte Für Chemie, 2020, 151, 1727-1736. | 0.9 | 4         |
| 303 | Synergic effect of pore size engineering and an applied electric field on the controlled permeation of alkali metal atoms and ions across pristine and defect-containing h-BN sheets. New Journal of Chemistry, 2020, 44, 7891-7901.                         | 1.4 | 4         |
| 304 | Electrochemical sensing behavior of graphdiyne nanoflake towards uric acid: a quantum chemical approach. Journal of Molecular Modeling, 2021, 27, 244.   | 0.8 | 4         |
| 305 | Enhancement of NLO properties of supersalt (Al(BH4)3)-doped graphene: a DFT study. Journal of<br>Molecular Modeling, 2022, 28, .   | 0.8 | 4         |
| 306 | Superhalogen doping of aromatic heterocycles; effective approach for the enhancement of static and dynamic NLO response. Vacuum, 2022, 203, 111301.  | 1.6 | 4         |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 307 | Theoretical insight into structural and electronic properties of cationic Scn+ (n=2-13): A benchmark<br>study. Solid State Sciences, 2018, 86, 60-68.   | 1.5 | 3         |
| 308 | Density functional theory, molecular docking and bioassay studies on (S)-2-hydroxy-N-(2S,3S,4R,E)-1,3,4   | 1.4 | 3         |
| 309 | Exploring the potential of novel transition metal complexes derived from ONO donor type ligand: a quantum chemical study. Journal of Molecular Modeling, 2019, 25, 284.   | 0.8 | 3         |
| 310 | Polyaniline emeraldine salt as selective electrochemical sensor for HBr over HCl: a systematic density functional theory study through oligomer approach. Journal of Molecular Modeling, 2020, 26, 332.   | 0.8 | 3         |
| 311 | Density functional theory, molecular docking and <i>inÂvivo</i> muscle relaxant, sedative, and<br>analgesic studies of indanone derivatives isolated from <i>Heterophragma adenophyllum</i> . Journal<br>of Biomolecular Structure and Dynamics, 2021, 39, 6488-6499. | 2.0 | 3         |
| 312 | Remarkable enhancement in sensor ability of polyaniline upon composite formation with ZnO for industrial effluents. Journal of Molecular Graphics and Modelling, 2020, 101, 107724.   | 1.3 | 3         |
| 313 | Synthesis and characterization of immobilized 1-(1,3-diphenyl-5-hydroxy-1H-pyrazol-4-yl)ethanone on silica gel and its use for aqueous heavy metal removal. , 0, 142, 213-224.  |     | 3         |
| 314 | Theoretical investigation of double-cubed polycationic cluster (Sb7Se8Cl2)3+ for the storage of helium and neon. Materials Science in Semiconductor Processing, 2022, 148, 106756.  | 1.9 | 3         |
| 315 | Alkaline earth metals doped C2N with enhanced non-linear optical properties. Optik, 2022, 265, 169514.  | 1.4 | 3         |
| 316 | Enhanced non-linear optical response of alkali metal-doped nitrogenated holey graphene (C2N).<br>Journal of Molecular Structure, 2022, 1267, 133580.  | 1.8 | 3         |
| 317 | Synthesis of 2,6-disubstituted tetrahydroazulene derivatives. Beilstein Journal of Organic Chemistry, 2012, 8, 693-698.   | 1.3 | 2         |
| 318 | First examples of carbene-catalyzed allylation of benzaldehyde with allyltrichlorosilane. Journal of the Iranian Chemical Society, 2015, 12, 1199-1205.   | 1.2 | 2         |
| 319 | Detailed Mechanistic Study of Radical Mediated Chemoselective Phosphination of Aryl Halide.<br>ChemistrySelect, 2018, 3, 11302-11308.   | 0.7 | 2         |
| 320 | Selective arylation of phenol proteted propygyl bromide via pd-catalysed Suzuki coupling reaction:<br>synthesis, mechanistic studies by DFT calculations and Their Pharmacological Aspects". Acta Poloniae<br>Pharmaceutica, 2018, 75, 911-919.                       | 0.3 | 2         |
| 321 | Theoretical investigation of lithium-based clusters Lin (where n = 3, 5, 7) with remarkable electronic<br>and frequency-dependent NLO properties. European Physical Journal Plus, 2022, 137, .  | 1.2 | 2         |
| 322 | Aromaticities of Five Membered Heterocycles through Dimethyldihydropyrenes Probe by Magnetic and<br>Geometric Criteria. Journal of Chemistry, 2015, 2015, 1-11.   | 0.9 | 1         |
| 323 | Aromaticity of 15,16-dimethyldihydropyrene relative to benzene and strain energies of elusive [e]-fused bis-dimethyldihydropyrenes. Computational and Theoretical Chemistry, 2015, 1063, 42-49.   | 1.1 | 1         |
| 324 | Synthesis of functionalised fluorinated pyridine derivatives by site-selective Suzuki-Miyaura<br>cross-coupling reactions of halogenated pyridines. Zeitschrift Fur Naturforschung - Section B<br>Journal of Chemical Sciences, 2017, 72, 263-279.                    | 0.3 | 1         |

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 325 | Estimation of optical rotation of γâ€ <b>e</b> lkylidenebutenolide, cyclopropylamine, cyclopropylâ€methanol and<br>cyclopropenone based compounds by a Density Functional Theory (DFT) approach. Chirality, 2017, 29,<br>634-647. | 1.3 | 1         |
| 326 | Thermal decomposition of syn- and anti-dihydropyrenes; functional group-dependent decomposition pathway. Journal of Molecular Modeling, 2019, 25, 215.  | 0.8 | 1         |
| 327 | Theoretical investigation on radical anion promoted electrocyclization in photochromes. Journal of<br>Molecular Graphics and Modelling, 2020, 97, 107550.   | 1.3 | 1         |
| 328 | Hetero-porphyrin based channel for separation of proton isotope: A density functional theory study.<br>Microporous and Mesoporous Materials, 2022, 339, 111995.   | 2.2 | 1         |
| 329 | Diffuse cone behavior and microscopic structure of the de Vries smectic-A and smectic-C phases.<br>Proceedings of SPIE, 2011, , .   | 0.8 | 0         |
| 330 | Electroclinic Effect in Axially Chiral Organosiloxane Liquid Crystals. Ferroelectrics, 2012, 431, 89-98.  | 0.3 | 0         |
| 331 | Permeation selectivity of pristine and vacancy defected hexagonal boron membranes for alkaline earth metal and ions. Journal of Biomolecular Structure and Dynamics, 2021, , 1-12.  | 2.0 | 0         |
| 332 | Unprecedented saturation limit achieved by inorganic polycationic cluster (Sb7Te8)5+ for light noble gases (He & Ne). Journal of Molecular Graphics and Modelling, 2021, 106, 107910.   | 1.3 | 0         |
| 333 | Permeability of boron- and nitrogen-doped graphene nanoflakes for protium/deuterium ions. RSC Advances, 2022, 12, 3883-3891.  | 1.7 | 0         |