

Khurshid Ayub

List of Publications by Citations

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318
papers

5,907
citations

41
h-index

56
g-index

341
ext. papers

7,953
ext. citations

3.7
avg, IF

7.03
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 318 | DFT Study of Polyaniline NH ₃ , CO ₂ , and CO Gas Sensors: Comparison with Recent Experimental Data. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23701-23711 | 3.8 | 146 |
| 317 | A comparative density functional theory study of guanine chemisorption on Al ₁₂ N ₁₂ , Al ₁₂ P ₁₂ , B ₁₂ N ₁₂ , and B ₁₂ P ₁₂ nano-cages. <i>Journal of Alloys and Compounds</i> , 2016 , 672, 161-169 | 5.7 | 108 |
| 316 | Doping and Dedoping Processes of Polypyrrole: DFT Study with Hybrid Functionals. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17819-17830 | 3.8 | 97 |
| 315 | Theoretical insight of polypyrrole ammonia gas sensor. <i>Synthetic Metals</i> , 2013 , 172, 14-20 | 3.6 | 84 |
| 314 | 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. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10919-10934 | 7.1 | 83 |
| 313 | Design of liquid crystals with "de Vries-like" properties: frustration between SmA- and SmC-promoting elements. <i>Journal of the American Chemical Society</i> , 2010 , 132, 364-70 | 16.4 | 83 |
| 312 | Ni adsorption on Al ₁₂ P ₁₂ nano-cage: A DFT study. <i>Journal of Alloys and Compounds</i> , 2016 , 678, 317-324 | 5.7 | 80 |
| 311 | Molecular and Electronic Structure Elucidation of Polypyrrole Gas Sensors. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15994-16003 | 3.8 | 77 |
| 310 | Enhancement in hydrogen molecule adsorption on B ₁₂ N ₁₂ nano-cluster by decoration of nickel. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 22182-22191 | 6.7 | 77 |
| 309 | Enhanced electronic and non-linear optical properties of alkali metal (Li, Na, K) doped boron nitride nano-cages. <i>Journal of Alloys and Compounds</i> , 2016 , 687, 976-983 | 5.7 | 72 |
| 308 | The First ZnII-Catalyzed Oxidative Amidation of Benzyl Alcohols with Amines under Solvent-Free Conditions. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 2783-2787 | 3.2 | 71 |
| 307 | Adsorption of thiophene on the surfaces of X ₁₂ Y ₁₂ (X = Al, B, and Y = N,P) nanoclusters; A DFT study. <i>Journal of Molecular Liquids</i> , 2017 , 238, 303-309 | 6 | 68 |
| 306 | Designing Three-dimensional (3D) Non-Fullerene Small Molecule Acceptors with Efficient Photovoltaic Parameters. <i>ChemistrySelect</i> , 2018 , 3, 12797-12804 | 1.8 | 66 |
| 305 | Phosphides or nitrides for better NLO properties? A detailed comparative study of alkali metal doped nano-cages. <i>Materials Research Bulletin</i> , 2017 , 92, 113-122 | 5.1 | 64 |
| 304 | Highly selective acridinium based cyanine dyes for the detection of DNA base pairs (adenine, cytosine, guanine and thymine). <i>Computational and Theoretical Chemistry</i> , 2019 , 1163, 112509 | 2 | 63 |
| 303 | O ₃ and SO ₂ sensing concept on extended surface of B ₁₂ N ₁₂ nanocages modified by Nickel decoration: A comprehensive DFT study. <i>Solid State Sciences</i> , 2017 , 69, 22-30 | 3.4 | 61 |
| 302 | Density Functional Theory Study of Poly(o-phenylenediamine) Oligomers. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4069-4078 | 3.8 | 61 |

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| 301 | Synthesis, crystal structures and spectroscopic properties of triazine-based hydrazone derivatives; a comparative experimental-theoretical study. <i>Molecules</i> , 2015 , 20, 5851-74 | 4.8 | 60 |
| 300 | Adsorption of pyrrole on Al ₁₂ N ₁₂ , Al ₁₂ P ₁₂ , B ₁₂ N ₁₂ , and B ₁₂ P ₁₂ fullerene-like nano-cages; a first principles study. <i>Vacuum</i> , 2016 , 131, 135-141 | 3.7 | 60 |
| 299 | Enhancement in Photovoltaic Properties of N,N-diethylaniline based Donor Materials by Bridging Core Modifications for Efficient Solar Cells. <i>ChemistrySelect</i> , 2020 , 5, 5022-5034 | 1.8 | 58 |
| 298 | Remarkable nonlinear optical response of alkali metal doped aluminum phosphide and boron phosphide nanoclusters. <i>Journal of Molecular Liquids</i> , 2018 , 271, 51-64 | 6 | 57 |
| 297 | Designing of benzodithiophene core-based small molecular acceptors for efficient non-fullerene organic solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 244, 118873 | 4.1 | 57 |
| 296 | Superalkalis as a source of diffuse excess electrons in newly designed inorganic electrides with remarkable nonlinear response and deep ultraviolet transparency: A DFT study. <i>Applied Surface Science</i> , 2019 , 483, 1118-1128 | 6.7 | 56 |
| 295 | Coordination of nickel atoms with Al ₁₂ X ₁₂ (X=N, P) nanocages enhances H ₂ adsorption: A surface study by DFT. <i>Vacuum</i> , 2016 , 133, 70-80 | 3.7 | 56 |
| 294 | Adsorption of Phosgene Gas on Pristine and Copper-Decorated BN Nanocages: A Comparative DFT Study. <i>ACS Omega</i> , 2020 , 5, 7641-7650 | 3.9 | 54 |
| 293 | Nonlinear optical and electronic properties of Cr-, Ni-, and Ti- substituted C ₂₀ fullerenes: A quantum-chemical study. <i>Materials Research Bulletin</i> , 2018 , 97, 399-404 | 5.1 | 54 |
| 292 | Density functional theory study of palladium cluster adsorption on a graphene support.. <i>RSC Advances</i> , 2020 , 10, 20595-20607 | 3.7 | 53 |
| 291 | Cyclic versus straight chain oligofuran as sensor: A detailed DFT study. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 97, 107569 | 2.8 | 52 |
| 290 | Supported protic ionic liquid membrane based on 3-(trimethoxysilyl)propan-1-aminium acetate for the highly selective separation of CO ₂ . <i>Journal of Membrane Science</i> , 2017 , 543, 301-309 | 9.6 | 52 |
| 289 | Phytochemical, spectroscopic and density functional theory study of Diospyrin, and non-bonding interactions of Diospyrin with atmospheric gases. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 141, 71-9 | 4.4 | 51 |
| 288 | Synthesis, crystal structure, spectroscopic and density functional theory (DFT) study of N-[3-anthracen-9-yl-1-(4-bromo-phenyl)-allylidene]-N-benzenesulfonohydrazine. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 142, 364-74 | 4.4 | 51 |
| 287 | Detailed surface study of adsorbed nickel on Al ₁₂ N ₁₂ nano-cage. <i>Thin Solid Films</i> , 2016 , 612, 179-185 | 2.2 | 49 |
| 286 | Theoretical study on a boron phosphide nanocage doped with superalkalis: novel electrides having significant nonlinear optical response. <i>New Journal of Chemistry</i> , 2019 , 43, 5727-5736 | 3.6 | 46 |
| 285 | Silver-graphene quantum dots based electrochemical sensor for trinitrotoluene and p-nitrophenol. <i>Journal of Molecular Liquids</i> , 2020 , 306, 112878 | 6 | 46 |
| 284 | Opto-electronic properties of non-fullerene fused-undecacyclic electron acceptors for organic solar cells. <i>Computational Materials Science</i> , 2019 , 159, 150-159 | 3.2 | 46 |

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| 283 | Theoretical study of the non linear optical properties of alkali metal (Li, Na, K) doped aluminum nitride nanocages. <i>RSC Advances</i> , 2016 , 6, 94228-94235 | 3.7 | 45 |
| 282 | Density functional theory and phytochemical study of Pistagremic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 118, 210-4 | 4.4 | 45 |
| 281 | High sensitivity of polypyrrole sensor for uric acid over urea, acetamide and sulfonamide: A density functional theory study. <i>Synthetic Metals</i> , 2018 , 235, 49-60 | 3.6 | 45 |
| 280 | Designing Novel Zn-Decorated Inorganic BP Nanoclusters with Promising Electronic Properties: A Step Forward toward Efficient CO Sensing Materials. <i>ACS Omega</i> , 2020 , 5, 15547-15556 | 3.9 | 44 |
| 279 | Calculation driven synthesis of an excellent dihydropyrene negative photochrome and its photochemical properties. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4040-5 | 16.4 | 43 |
| 278 | Synthesis, characterisation, optical and nonlinear optical properties of thiazole and benzothiazole derivatives: a dual approach. <i>Molecular Simulation</i> , 2018 , 44, 1191-1199 | 2 | 43 |
| 277 | Adsorption properties of acetylene and ethylene molecules onto pristine and nickel-decorated Al ₁₂ N ₁₂ nanoclusters. <i>Materials Chemistry and Physics</i> , 2017 , 194, 337-344 | 4.4 | 41 |
| 276 | Exceptionally high NLO response and deep ultraviolet transparency of superalkali doped macrocyclic oligofuran rings. <i>New Journal of Chemistry</i> , 2020 , 44, 2609-2618 | 3.6 | 41 |
| 275 | Transportation of hydrogen atom and molecule through X ₁₂ Y ₁₂ nano-cages. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 11439-11451 | 6.7 | 40 |
| 274 | Designing indacenodithiophene based non-fullerene acceptors with a donor-acceptor combined bridge for organic solar cells.. <i>RSC Advances</i> , 2019 , 9, 3605-3617 | 3.7 | 40 |
| 273 | Combined experimental and theoretical study of poly(aniline-co-pyrrole) oligomer. <i>Polymer</i> , 2015 , 72, 30-39 | 3.9 | 40 |
| 272 | An accurate cost effective DFT approach to study the sensing behaviour of polypyrrole towards nitrate ions in gas and aqueous phases. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 19236-47 | 3.6 | 40 |
| 271 | Design of novel superalkali doped silicon carbide nanocages with giant nonlinear optical response. <i>Optics and Laser Technology</i> , 2020 , 122, 105855 | 4.2 | 40 |
| 270 | Density functional theory and phytochemical study of 8-hydroxyisodiospyrin. <i>Journal of Molecular Structure</i> , 2015 , 1095, 69-78 | 3.4 | 39 |
| 269 | Theoretical study on novel superalkali doped graphdiyne complexes: Unique approach for the enhancement of electronic and nonlinear optical response. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 97, 107573 | 2.8 | 39 |
| 268 | Theoretical study on design of novel superalkalis doped graphdiyne: A new donor-acceptor (D-EA) strategy for enhancing NLO response. <i>Applied Surface Science</i> , 2019 , 492, 255-263 | 6.7 | 39 |
| 267 | Nitrogenated holey graphene (C ₂ N) surface as highly selective electrochemical sensor for ammonia. <i>Journal of Molecular Liquids</i> , 2019 , 296, 111929 | 6 | 39 |
| 266 | Zinc-Doped Boron Phosphide Nanocluster as Efficient Sensor for SO ₂ . <i>Journal of Chemistry</i> , 2020 , 2020, 1-12 | 2.3 | 37 |

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| 265 | Transition metal doping: a new and effective approach for remarkably high nonlinear optical response in aluminum nitride nanocages. <i>New Journal of Chemistry</i> , 2018 , 42, 6976-6989 | 3.6 | 37 |
| 264 | A comprehensive DFT study on the sensing abilities of cyclic oligothiophenes (nCTs). <i>New Journal of Chemistry</i> , 2019 , 43, 14120-14133 | 3.6 | 36 |
| 263 | Adsorption behaviour of chronic blistering agents on graphdiyne; excellent correlation among SAPT, reduced density gradient (RDG) and QTAIM analyses. <i>Journal of Molecular Liquids</i> , 2020 , 316, 113880 | 6 | 36 |
| 262 | Fine Tuning the Optoelectronic Properties of Triphenylamine Based Donor Molecules for Organic Solar Cells. <i>Zeitschrift Fur Physikalische Chemie</i> , 2017 , 231, 1127-1139 | 3.1 | 35 |
| 261 | How can nickel decoration affect H ₂ adsorption on B ₁₂ P ₁₂ nano-heterostructures?. <i>Journal of Molecular Liquids</i> , 2018 , 255, 168-175 | 6 | 35 |
| 260 | Direct observation of diffuse cone behavior in de Vries smectic-A and -C phases of organosiloxane mesogens. <i>Physical Review Letters</i> , 2011 , 106, 087801 | 7.4 | 34 |
| 259 | Design of donor-acceptor-donor (DAD) type small molecule donor materials with efficient photovoltaic parameters. <i>International Journal of Quantum Chemistry</i> , 2017 , 117, e25363 | 2.1 | 33 |
| 258 | 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. <i>Journal of Molecular Structure</i> , 2016 , 1106, 430-439 | 3.4 | 33 |
| 257 | Therapeutic potential of graphitic carbon nitride as a drug delivery system for cisplatin (anticancer drug): A DFT approach. <i>Biophysical Chemistry</i> , 2020 , 267, 106461 | 3.5 | 33 |
| 256 | Substitutional doping of zirconium-, molybdenum-, ruthenium-, and palladium: An effective method to improve nonlinear optical and electronic property of C ₂₀ fullerene. <i>Computational and Theoretical Chemistry</i> , 2017 , 1121, 68-75 | 2 | 32 |
| 255 | 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. <i>Journal of Organic Chemistry</i> , 2008 , 73, 451-6 | 4.2 | 32 |
| 254 | An accurate comparative theoretical study of the interaction of furan, pyrrole, and thiophene with various gaseous analytes. <i>Journal of Molecular Modeling</i> , 2017 , 23, 295 | 2 | 31 |
| 253 | Development of fullerene free acceptors molecules for organic solar cells: A step way forward toward efficient organic solar cells. <i>Computational and Theoretical Chemistry</i> , 2019 , 1161, 26-38 | 2 | 31 |
| 252 | Doping superalkali on Zn ₁₂ O ₁₂ nanocage constitutes a superior approach to fabricate stable and high-performance nonlinear optical materials. <i>Optics and Laser Technology</i> , 2019 , 120, 105753 | 4.2 | 30 |
| 251 | Exploration of adsorption behavior, electronic nature and NLO response of hydrogen adsorbed Alkali metals (Li, Na and K) encapsulated Al ₁₂ N ₁₂ nanocages. <i>Journal of Theoretical and Computational Chemistry</i> , 2020 , 19, 2050031 | 1.8 | 30 |
| 250 | High selectivity of cyclic tetrapyrrole over tetrafurane and tetrathiophene toward toxic chemicals; A first-principles study. <i>Microporous and Mesoporous Materials</i> , 2020 , 299, 110126 | 5.3 | 29 |
| 249 | DFT study of the therapeutic potential of phosphorene as a new drug-delivery system to treat cancer.. <i>RSC Advances</i> , 2019 , 9, 24325-24332 | 3.7 | 29 |
| 248 | Designing dithienothiophene (DTT)-based donor materials with efficient photovoltaic parameters for organic solar cells. <i>Journal of Molecular Modeling</i> , 2019 , 25, 222 | 2 | 29 |

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| 247 | Palladium catalyzed synthesis and physical properties of indolo[2,3-b]quinoxalines. <i>Organic and Biomolecular Chemistry</i> , 2014 , 12, 6151-66 | 3.9 | 28 |
| 246 | High sensitivity of graphdiyne nanoflake toward detection of phosgene, thiophosgene and phosgenoxime; a first-principles study. <i>Journal of Molecular Graphics and Modelling</i> , 2020 , 100, 107658 | 2.8 | 27 |
| 245 | Substituents effect on thermal electrocyclic reaction of dihydroazuleneVinylheptafulvene photoswitch: a DFT study to improve the photoswitch. <i>Structural Chemistry</i> , 2013 , 24, 2115-2126 | 1.8 | 27 |
| 244 | Silver clusters tune up electronic properties of graphene nanoflakes: A comprehensive theoretical study. <i>Journal of Molecular Liquids</i> , 2020 , 297, 111902 | 6 | 27 |
| 243 | First-principles study for exploring the adsorption behavior of G-series nerve agents on graphdiyne surface. <i>Computational and Theoretical Chemistry</i> , 2020 , 1191, 113043 | 2 | 27 |
| 242 | Spirobifluorene based small molecules as an alternative to traditional fullerene acceptors for organic solar cells. <i>Materials Science in Semiconductor Processing</i> , 2019 , 94, 97-106 | 4.3 | 26 |
| 241 | Spectroscopic and density functional theory studies of 5,7,3',5'-tetrahydroxyflavanone from the leaves of <i>Olea ferruginea</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 128, 225-30 | 4.4 | 26 |
| 240 | Synthesis, structural studies and biological activities of three new 2-(pentadecylthio)-5-aryl-1,3,4-oxadiazoles. <i>Journal of Molecular Structure</i> , 2017 , 1129, 50-59 | 3.4 | 26 |
| 239 | Designing alkoxy-induced based high performance near infrared sensitive small molecule acceptors for organic solar cells. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112829 | 6 | 25 |
| 238 | Photophysical and electrochemical properties and temperature dependent geometrical isomerism in alkyl quinacridonediiimines. <i>New Journal of Chemistry</i> , 2014 , 38, 752-761 | 3.6 | 25 |
| 237 | Comparative investigation of sensor application of polypyrrole for gaseous analytes. <i>Journal of Physical Organic Chemistry</i> , 2019 , 32, e3960 | 2.1 | 24 |
| 236 | Tuning opto-electronic properties of alkoxy-induced based electron acceptors in infrared region for high performance organic solar cells. <i>Journal of Molecular Liquids</i> , 2020 , 298, 111963 | 6 | 24 |
| 235 | Synthesis, crystal structures, computational studies and antimicrobial activity of new designed bis((5-aryl-1,3,4-oxadiazol-2-yl)thio)alkanes. <i>Journal of Molecular Structure</i> , 2018 , 1155, 403-413 | 3.4 | 24 |
| 234 | Design of liquid crystals with De Vries-like properties: carbosilane-terminated 5-phenylpyrimidine mesogens suitable for chevron-free FLC formulations. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4581-4589 | 7.1 | 23 |
| 233 | Binding affinity and permeation of X12Y12 nanoclusters for helium and neon. <i>Journal of Molecular Liquids</i> , 2017 , 244, 124-134 | 6 | 23 |
| 232 | Extremely large nonlinear optical response and excellent electronic stability of true alkaline earthides based on hexaammine complexant. <i>Journal of Molecular Liquids</i> , 2020 , 297, 111899 | 6 | 23 |
| 231 | Alkaline earth metal decorated phosphide nanoclusters for potential applications as high performance NLO materials; A first principle study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 118, 113906 | 3 | 23 |
| 230 | Designing dithienonaphthalene based acceptor materials with promising photovoltaic parameters for organic solar cells.. <i>RSC Advances</i> , 2019 , 9, 34496-34505 | 3.7 | 23 |

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| 229 | Outstanding NLO response of thermodynamically stable single and multiple alkaline earth metals doped C20 fullerene. <i>Journal of Molecular Liquids</i> , 2020 , 305, 112875 | 6 | 22 |
| 228 | Adamanzane based alkaline earthides with excellent nonlinear optical response and ultraviolet transparency. <i>Optics and Laser Technology</i> , 2020 , 129, 106298 | 4.2 | 22 |
| 227 | Theoretical Calculations of the Optical and Electronic Properties of Dithienosilole- and Dithiophene-Based Donor Materials for Organic Solar Cells. <i>ChemistrySelect</i> , 2018 , 3, 1593-1601 | 1.8 | 22 |
| 226 | Novel acridine-based thiosemicarbazones as 'turn-on' chemosensors for selective recognition of fluoride anion: a spectroscopic and theoretical study. <i>Royal Society Open Science</i> , 2018 , 5, 180646 | 3.3 | 22 |
| 225 | A comparative study of DFT calculated and experimental UV/Visible spectra for thirty carboline and carbazole based compounds. <i>Journal of Molecular Structure</i> , 2017 , 1149, 282-298 | 3.4 | 22 |
| 224 | Change in the electronic and nonlinear optical properties of Fullerene through its incorporation with Sc-, Fe-, Cu-, and Zn transition metals. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1 | 2.6 | 21 |
| 223 | Synthesis, structural properties, DFT studies, antimicrobial activities and DNA binding interactions of two newly synthesized organotin(IV) carboxylates. <i>Journal of Molecular Structure</i> , 2019 , 1191, 291-300 | 3.4 | 21 |
| 222 | Significant nonlinear optical response of alkaline earth metals doped beryllium and magnesium oxide nanocages. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122507 | 4.4 | 21 |
| 221 | Efficient Cu Decorated Inorganic B12P12 Nanoclusters for Sensing Toxic COCl2 Gas: A Detailed DFT Study. <i>Journal of Computational Biophysics and Chemistry</i> , 2021 , 20, 85-97 | | 21 |
| 220 | Copper-doped Al12N12 nano-cages: potential candidates for nonlinear optical materials. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1 | 2.6 | 21 |
| 219 | Sensor applications of polypyrrole for oxynitrogen analytes: a DFT study. <i>Journal of Molecular Modeling</i> , 2018 , 24, 308 | 2 | 21 |
| 218 | Synthesis, molecular structure, quantum mechanical studies and urease inhibition assay of two new isatin derived sulfonylhydrazides. <i>Journal of Molecular Structure</i> , 2017 , 1133, 80-89 | 3.4 | 20 |
| 217 | Spectroscopic and density functional theory studies of 7-hydroxy-3'-methoxyisoflavone: A new isoflavone from the seeds of Indigofera heterantha (Wall). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 148, 375-81 | 4.4 | 20 |
| 216 | Carbon nitride 2-D surface as a highly selective electrochemical sensor for V-series nerve agents. <i>Journal of Molecular Liquids</i> , 2020 , 311, 113357 | 6 | 20 |
| 215 | DFT study of boron trichloride adsorption on the surface of Al12N12 nanocluster. <i>Molecular Physics</i> , 2017 , 115, 879-884 | 1.7 | 19 |
| 214 | Spectral and electronic properties of E-conjugated oligomers and polymers of Poly (o-chloroaniline-co-o-toluidine) calculated with density functional theory. <i>Synthetic Metals</i> , 2015 , 205, 153-163 | 3.6 | 19 |
| 213 | Thiobiuret based Ni(II) and Co(III) complexes: Synthesis, molecular structures and DFT studies. <i>Journal of Molecular Structure</i> , 2017 , 1148, 388-396 | 3.4 | 19 |
| 212 | Isatin-derived non-fullerene acceptors for efficient organic solar cells. <i>Materials Science in Semiconductor Processing</i> , 2021 , 121, 105345 | 4.3 | 19 |

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|-----|---|-----|----|
| 211 | Remarkable second and third order nonlinear optical properties of organometallic C ₆ Li ₆ M ₃ O electrides. <i>New Journal of Chemistry</i> , 2020 , 44, 9822-9829 | 3.6 | 18 |
| 210 | Expanding the horizons of covalent organic frameworks to electrochemical sensors; A case study of CTF-FUM. <i>Microporous and Mesoporous Materials</i> , 2020 , 300, 110146 | 5.3 | 18 |
| 209 | Antiradical, antimicrobial and enzyme inhibition evaluation of sulfonamide derived esters; synthesis, X-Ray analysis and DFT studies. <i>Journal of Molecular Structure</i> , 2019 , 1175, 379-388 | 3.4 | 18 |
| 208 | Efficient Synthesis of Novel Pyridine-Based Derivatives via Suzuki Cross-Coupling Reaction of Commercially Available 5-Bromo-2-methylpyridin-3-amine: Quantum Mechanical Investigations and Biological Activities. <i>Molecules</i> , 2017 , 22, | 4.8 | 18 |
| 207 | Synthesis, Density Functional Theory (DFT), Urease Inhibition and Antimicrobial Activities of 5-Aryl Thiophenes Bearing Sulphonylacetamide Moieties. <i>Molecules</i> , 2015 , 20, 19914-28 | 4.8 | 18 |
| 206 | Copper complexes of bioactive ligands with superoxide dismutase activity. <i>Mini-Reviews in Medicinal Chemistry</i> , 2013 , 13, 1944-56 | 3.2 | 18 |
| 205 | One Pot Selective Arylation of 2-Bromo-5-Chloro Thiophene; Molecular Structure Investigation via Density Functional Theory (DFT), X-ray Analysis, and Their Biological Activities. <i>International Journal of Molecular Sciences</i> , 2016 , 17, | 6.3 | 18 |
| 204 | DFT study of superhalogen and superalkali doped graphitic carbon nitride and its non-linear optical properties.. <i>RSC Advances</i> , 2021 , 11, 7779-7789 | 3.7 | 18 |
| 203 | Designing of non-fullerene 3D star-shaped acceptors for organic solar cells. <i>Journal of Molecular Modeling</i> , 2019 , 25, 129 | 2 | 17 |
| 202 | Isolation, spectroscopic and density functional theory studies of 7-(4-methoxyphenyl)-9H-furo[2,3-f]chromen-9-one: a new flavonoid from the bark of <i>Millettia ovalifolia</i> . <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 146, 24-32 | 4.4 | 17 |
| 201 | Palladium(0) catalyzed Suzuki cross-coupling reaction of 2,5-dibromo-3-methylthiophene: selectivity, characterization, DFT studies and their biological evaluations. <i>Chemistry Central Journal</i> , 2018 , 12, 49 | | 17 |
| 200 | Synthesis biological screening and molecular docking studies of some tin (IV) Schiff base adducts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 164, 65-72 | 6.7 | 17 |
| 199 | Interaction of Graphene Quantum Dots with Oligothiophene: A Comprehensive Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 29556-29570 | 3.8 | 17 |
| 198 | Synthesis and Properties of 5,7-Dihydropyrido[3,2-b:5,6-b']diindoles. <i>European Journal of Organic Chemistry</i> , 2015 , 2015, 1007-1019 | 3.2 | 17 |
| 197 | Synthesis of Functionalized Indolizines by Lewis Acid-Mediated Cyclocondensation of 3-(Pyridin-2-yl)-propiolates with Enones. <i>Advanced Synthesis and Catalysis</i> , 2012 , 354, 1163-1169 | 5.6 | 17 |
| 196 | Superhalogen doping: a new and effective approach to design materials with excellent static and dynamic NLO responses. <i>New Journal of Chemistry</i> , 2020 , 44, 16358-16369 | 3.6 | 17 |
| 195 | DFT study of acceleration of electrocyclization in photochromes under radical cationic conditions: Comparison with recent experimental data. <i>Tetrahedron</i> , 2017 , 73, 3521-3528 | 2.4 | 16 |
| 194 | Diffusion of alkali metal atoms (Li, Na, K) on aluminum nitride and boron nitride nanocages; a density functional theory study. <i>Journal of Molecular Liquids</i> , 2018 , 259, 249-259 | 6 | 16 |

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| 193 | Permeability and storage ability of inorganic X12Y12 fullerenes for lithium atom and ion. <i>Chemical Physics Letters</i> , 2018 , 698, 51-59 | 2.5 | 16 |
| 192 | Syntheses of dihydropyrene-cyclophanediene negative photochromes containing internal alkenyl and alkynyl groups and comparison of their photochemical and thermochemical properties. <i>Journal of Organic Chemistry</i> , 2014 , 79, 664-78 | 4.2 | 16 |
| 191 | Synthesis, crystal structures, computational studies and α -amylase inhibition of three novel 1,3,4-oxadiazole derivatives. <i>Journal of Molecular Structure</i> , 2020 , 1200, 127085 | 3.4 | 16 |
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| 189 | Remarkable static and dynamic NLO response of alkali and superalkali doped macrocyclic [hexa-]thiophene complexes; a DFT approach.. <i>RSC Advances</i> , 2021 , 11, 4118-4128 | 3.7 | 16 |
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