***Curriculum Vitae and List of Publications***

***Dr. Umer Rashid***

***Associate Professor***

***Department of Chemistry,***

***COMSATS University Islamabad,***

***Abbottabad Campus, PAKISTAN***

***American Chemical Society (ACS)***

***Reviewer Lab Graduate***

***HEC approved supervisor***

***Ex-Member American Chemical Society (ACS)***

***Ex-Member COMP-An ACS division of Computers in Chemistry***

***Member Chemical Society of Pakistan***

***Ex-IUPAC Affiliate Member***

***ResearcherID: AGW-1380-2022***

***Scopus Author ID: 57912440300***

***https://orcid.org/0000-0002-2419-3172***

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Phone +92 (992) 383591-6 Cell +92-312-5161999, +92-334-5171999

**Area of Interest**

(1) Design, synthesis and development of novel small-molecule drugs and multitarget inhibitors to treat human diseases including cancer (e.g. breast cancer), metabolic diseases (e.g. type II diabetes) and neurological diseases (e.g. Alzheimer's disease (AD)) using medicinal chemistry strategies in association with computer-aided rational drug design. (2) Application of new computational and informatics methods and tools for drug design and discovery. (3) Development of novel organic synthetic methodologies to achieve efficient drug synthesis and diversity-oriented synthesis.

**Achievements**

* ***Enlisted in 2023's World's Top 2% Scientist ranking released by Stanford University, USA***
* ***Nominated for the 2023 RSC Medicinal Chemistry Emerging Investigator Lectureship Award***
* ***Best Researcher Award, Department of Chemistry, COMSATS University, Abbottabad***

***Personnel information***

|  |  |
| --- | --- |
| Father’s Name: | Abdul Rashid |
| Date & Place of Birth | 19 – 08 – 1973 |
| NIC # | 37405-1673741-3 |
| Nationality | Pakistani |
| Marital status | Married |
| Mailing Address | Department of Chemistry, CUI, Abbottabad |
| Permanent Address | H. No. 39-D, Sector 4-B, Khayaban-e-Sirsyed, Rawalpindi, Pakistan |
| Phone No | +92 334 5171999 |
| E – mail | [umerrashid@cuiatd.edu.pk](mailto:umerrashid@cuiatd.edu.pk) |

***Current Status***

|  |  |
| --- | --- |
| Associate Professor (Tenured) | Department of Chemistry, COMSATS University Islamabad, Abbottabad Campus, PAKISTAN |

***Academics***

|  |  |  |
| --- | --- | --- |
| **Ph.D.** | **2011** | Organic/Medicinal Chemistry from Quaid-i-Azam University, Islamabad |
| **M.Sc** | **1997** | Chemistry (Punjab University (G.C. Lahore) |
| **B.Sc.** | **1994** | Chemistry, Botany, Geography (Punjab University, Lahore |
| **F.Sc.** | **1991** | Pre-Medical (Federal Government College for Men, H-9, Islamabad) |
| **Matric** | **1989** | Science (Federal Government High School N0.16, I-10/1, Islamabad) |

***Dissertations***

|  |  |
| --- | --- |
| **Ph.D.** | Dihydropyrimidines as potential drug candidates-Design, synthesis, bioevaluation and computational studies. |
| **M.Sc.** | Synthesis of Food dyes. |

***Post-Ph.D. Teaching/ Research Experiences (11 years)***

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Associate Professor (Tenured) | 22-5-2023 to date | Department of Chemistry, COMSATS University Islamabad-Abbottabad Campus |
| 2 | Assistant Professor (*TTS*) | 25-02-2016 to 21-5-2023 | Department of Chemistry, COMSATS University Islamabad-Abbottabad Campus |
| 3 | Assistant Professor | 24-08-2011 to 24-02-2016 | Department of Chemistry, Hazara University, Mansehra |

***Research Projects***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Project title** | **Amount in Rs (million)** | **Agency** | **Project ID No.** | **Status: Submitted / Approved / Completed** |
| Tailoring the Substitution Pattern on Indanone and thiazolidinedione Core for Targeting Enzymes Associated with Alzheimer's Disease: Design, Synthesis and Biological Evaluations | 8.68 | HEC | 20-14513/NRPU/R&D/HEC/2021 2021 | Approved |
| Structure-based design and optimization of dihydropyrimidine-pteridine analogues as inhibitors of leishmania pteridine reductase and dihydrofolate reductase | 5.2 | HEC | 5291/Federal/NRPU  /R&D  /HEC/2016 | Completed |
| Design, synthesis and computational studies of dihydropyrimidine based urease and thymidine phosphorylase inhibitors | 0.5 | HEC | PM-IPFP/HRD/HEC  /2011/346 | Completed |

***Scholarships / Awards /Certificates***

|  |  |
| --- | --- |
| **October 2023** | Enlisted in 2023’s World’s Top 2% Scientist ranking released by Stanford University, USA. |
| **December 2022** | Nominated for the 2023 RSC Medicinal Chemistry Emerging Investigator Lectureship Award |
| **October 2022** | Best Researcher Award, Department of Chemistry, COMSATS University, Abbottabad |
| **August 2022** | Appreciation letter on Best Performance, COMSATS University, Abbottabad |
| **2016-2018** | Research Productivity Award |
| **Feb. 1, 2010 – Jul. 31, 2010** | HEC scholarship under International Research Support Initiative Program (IRSIP) for doing a part of Ph.D. research at Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens-University, Austria. |
| **Sep. 1, 2009- Jan. 31, 2010, not availed** | DAAD scholarship awarded for Germany, Rostock university |
| **June 2004-May 2007** | Merit Scholarship, Quaid-i-Azam University, Islamabad |

***Keynote / Invited speaker / Resource Person in Workshops/conferences/ Symposium***

|  |  |
| --- | --- |
| February, 2023 | Lecture on Rational Drug Design at University of Malakand, Chakdara |
| August 23, 2022 | Keynote speaker at University of Wah, Wah Cantt. |
| August 17, 2022 | University Of Gujrat |
| August 2, 2022 | International Symposium on Computational Biology organized by Department of Biotecnology, COMSATS University, Abbottabad |
| July 2, 2022 | International Symposium on Computational Chemistry, University of Agriculture, Faisalabad |
| November 28-29, 2018 | Resource person, Molecular Modeling Workshop at Government Sadiq Women University, Bahawalpur |
| March 7-8, 2019 | Resource person, Molecular Modelling Workshop, Department of Biotechnology, G.C University, Lahore |
| February 11-12, 2019 | Speaker, First International Conference on Drug Discovery against Cancer and other diseases. University of Swabi |

***Membership of Learned Bodies***

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| --- | --- |
| International | Member American Chemical Society (ACS) |
| COMP-An ACS division of Computers in Chemistry |
| IUPAC Affiliate member |
| National | Life Member, Chemical Society of Pakistan |

***Trainings / Courses***

|  |  |
| --- | --- |
| September 4-2019 | ACS Lab Reviewer graduate |
| Feb. 3, 2010 – Jul. 25, 2010 | Training in use of Microwave synthesizers (Biotage Initiator, CEM discover, Anton Paar microwave), Preparative chromatographic equipment (Biotage SP1), HPLC-UV, LCMS, GC-FID/GCMS in Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens-University, Austria |

***Co-curricular activities***

|  |  |
| --- | --- |
| March 2018 to Jan 2020 | Secretary DARC, Department of Chemistry, COMSATS, Abbottabad |
| Sep. 2011 to Feb. 2016 | Convener, Seminar Committee, Department of Chemistry, Hazara University, Mansehra |
| Jan. 2012-Dec.2012 | Member Editorial board “Young Chemist |

***Editorial contribution / Manuscript Reviewer***

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| 1. **Associate Editor,** Frontiers in Chemistry, Medicinal and Pharmaceutical section: From September 1, 2022 |
| 1. **Review Editor**, Frontiers in Chemistry, Medicinal and Pharmaceutical section |
| 1. Reviewer, Journal of Medicinal Chemistry (ACS) |
| 1. Reviewer, Journal of Natural Product Chemistry (ACS) |
| 1. Reviewer, European Journal of Medicinal Chemistry (Elsevier) |
| 1. Reviewer, Journal of Enzyme Inhibition and Medicinal Chemistry (Taylor and Francis) |
| 1. Reviewer, Future Medicinal Chemistry (Future Science UK) |
| 1. Reviewer, Bioorganic Chemistry (Elsevier) |
| 1. Reviewer, Journal of Molecular Structure (Elsevier) |
| 1. Reviewer, Computational Biology and Chemistry (Elsevier) |

***Ph.D students Under Supervision***

|  |  |
| --- | --- |
| Safi Ullah | Department of Chemistry, COMSATS University, Abbottabad |
| Anees Saeed | Department of Chemistry, COMSATS University, Abbottabad |
| Sadia Shaheen | Department of Chemistry, COMSATS University, Abbottabad |

***Ph.D students Supervised / Co-Supervised***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | Muhammad Aamir Javed  (Supervision) | 2022 | Tailoring the Substitution Pattern on Pyrimidine and Pyrrolidine for Targeting Enzymes Associated with Alzheimer's Disease: Design, Synthesis and Biological Evaluation | Department of Chemistry, COMSATS University, Abbottabad |
| 2 | Miss Aysha  (Co-Supervision) | 2022 |  | University Of Gujrat |
| 3 | Sajjad Ahmad  (Co-Supervision) | 2021 | Appraisal of anti-nociceptive potentials of the synthesized Michael adducts | Department of Pharmacy  University of Malakand |
| 4 | Fatima Iftikhar  (Co-Supervision) | 2019 | Design, Synthesis, Computational Studies and Bio-evaluation of Novel N-Heterocycles from Pyrimidine Scaffold | Department of Chemistry, Hazara University, Mansehra |

***M. Phil. / MS Students Supervised (At COMSATS, Abbottabad)***

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| --- | --- | --- | --- |
| **#** | **Student Name** | **Thesis Title** | **Status**  Registered/Completed |
|  | Iqra Ejaz | Design and Synthesis of Pyrimidine Derivatives Targeting Estrogen Receptor-alpha for the Treatment of Breast Cancer | Completed |
|  | Ridha Jadoon | Design, Synthesis and Biological Evaluation of Thiazolidinedione Derivatives as Monoamine Oxidase-B Inhibitors | Completed |
|  | Saba Bibi | Design and Synthesis of 2-Aminothiazole-Based Multi-target Inhibitors to Tackle Cholinergic Deficit and Neuroinflammation in Alzheimer's Disease | Completed |
|  | Suleman Muraad | Design, Synthesis and Anti-cholinesterase Activity of Benzimidazole Derivatives | Completed |
|  | Rimsha Syed | Design, Synthesis and Molecular Modelling Study of Mefenamic Acid Analogs Endowed with Preferential COX-2 Inhibitory Activity | Completed |
|  | Sadia Khan | Tailoring the Substitution Pattern of Pyrrolidine-2,5-dione for Targeting Cyclooxygenase-2 Synthesis, Molecular Modeling, and Biological Evaluation as Anti-Inflammatory Agent | Completed |
|  | Nighat Ashraf  (CIIT/SP18-R06-021/ATD) | Design and Synthesis of Sulfonamide Derivatives as Selective COX-2 Inhibitors | Completed |
|  | Zeeshan Khan  (CIIT/SP18-R06-015/ATD) | Synthesis of Gallic acid and Thiazolidine-2,4-dione Based α-Glucosidase and α-Amylase Inhibitors | Completed |
|  | Azmat Ullah  (CIIT/FA18-RCM-030/ATD) | Structure-Based Design and Optimization of Mimics of Methotrexate as Potential Antileishmanial Agents | Completed |
|  | Flak Shair  (CUI/FA18-RCM-031/ATD) | Design, Synthesis, In-vivo and In-silico Studies of Gabapentin Derivatives as Antiepileptic Agents | Completed |
|  | Haleema Bibi  (FA18-R06-013) | Synthesis and DFT Studies of unsymmetrical Polymethine Cyanine Dyes Having Different N-Hetrocyclic Rings | Completed |
|  | Sadia shaheen  (FA18-R06-038) | Design and Synthesis of Thiourea Based Urease Inhibitors | Completed |
|  | Zaneb Kiran  (CIIT/FA18-RCM-011/ATD) | Effect of Ligand Volume on AChE Inhibition: A Combined Synthetic and Computational Approach | Completed |
|  | Muhammad Bilal Tufail  FA17-R06-016 | Design, Synthesis and Pharmacological Evaluation of Progesterone and Pregnenolone Derivatives as Potent Anticancer Drugs | Completed |
|  | Memoona Pervaiz  FA17-R06-039 | Design and Synthesis of Piperazine and Piperidine Derivatives as Dual Binding Site Acetylcholinesterase Inhibitors | Completed |
|  | Sadaf Qureshi  FA17-R06-028 | Design, Synthesis and In Vitro Antibacterial Studies on Nitroimidazole Derivatives | Completed |
|  | Sana Malik  FA17-R06-030 | Theoretical Studies on Adsorption Ability of Zintl Ions for Hydrogen Storage | Completed |
|  | Mamoona  FA17-R06-011 | Identification of Diverse Scaffolds as Potential Inhibitors of Urease Using Matched Molecular Pairs and Scaffold Hopping Tools | Completed |
|  | Maria Bibi  (FA16-R06-006) | Design, Synthesis and Docking Studies of Pyrimidines Derivatives as Potent Antileishmanial Drugs | Completed |
|  | Saba Tahir  (FA16-R06-023) | Design, Synthesis and Anti-bacterial Studies of Piperazine Derivatives against Drug Resistant Bacteria | Completed |
|  | Muhammad Sajjad  (SP17-R06-025) | Computer Guided Design and Synthesis of Dihydropyrimidine C-5 Acylhydroxamic Acid Derivatives as Potential Urease Inhibitors | Completed |
|  | Saba Tahir Tanoli  (SP16-R06-007) | Computer assisted design, synthesis and bioevaluation of tricyclic fused ring system as dual binding site Acetylcholine esterase inhibitors | Completed |
|  | Maria Rasheed Khan  (SP15-R06-012) | Design, Synthesis and Docking Studies of 1,2,4-Triazine Derived Schiff Base Metal Complexes as Potent Antileishmanial Drugs. | Completed |

***M. Phil. Supervised (At Hazara University, Mansehra)***

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| --- | --- | --- | --- |
| 1 | Farhana Yaqoob | **2013** | Synthesis, C-6 modification and computational studies on dihydropyrimidine scaffold as thymidine phosphorylase inhibitors |
| 2 | Yousaf Ali | **2013** | Synthesis, C-5 modification and computational studies on Dihydropyrimidine scaffold as potent urease inhibitor |
| 3 | Riffat Sultana | **2013** | Synthesis, Molecular docking, structure–activity relationship and biological evaluation Dihydropyrimidines as antileishmanial agents |
| 4 | Syed Fahad Hassan (From University of Lahore) | **2013** | Medicinal Chemistry approaches in Drug Designing |
| 5 | M. Abeela (Co-Supervisor) | **2013** | Synthesis of imines prodrugs |
| 6 | Muhammad Jawad | **2014** | Design, Synthesis, Computational Studies and Bioevaluation Of Guanidine Containing Heterocycles |
| 7 | Farzana Bibi | **2014** | Computer Based Design and Synthesis of IL-2 Inhibitors |
| 8 | Afsheen Naz (Co-Supervisor) | **2014** | *Spectroscopic, DNA binding, molecular docking, partitioning and solubilization studies of new anticancer dihydropyrimidine derivatives* |
| 9 | Sufyan Ahmad | **2014** | *In silico* approach to design and synthesis of ligands for the treatment of Alzheimer’s disease |
| 10 | Ambreen Altaf | **2015** | 2-Aminopyrimidines from chalcones and their tin (IV) complexes: Synthesis, antibacterial activity and computational studies |
| 11 | Kaniz Zahra | **2015** | Synthesis and drug loading on SiO2 coated Fe3O4 nanoparticles for treatment of Alzheimer’s disease |
| 12 | Atta Ullah | **2015** | Synthesis and antibacterial activity of some new amino acid derivatives |
| 13 | Muhammad Ayaz | **2015** | Structural modification and bioevaluation of some commercial drugs using bioisosteric approach |
| 14 | Saeed Anwar | **2015** | Thionation of carbonyl compounds using Lawesson’s reagent: A comparative account of thermal, acoustic and microwave approach |
| 15 | Nasir Ud Din | **2015** | Computer based design and synthesis of novel potential antibacterials against highly resistant selected strains of microorganisms |
| 16 | Sadia Bibi | **2015** | Design and synthesis of cyclic thioureas as urease inhibitors |
| 17 | Waqas Ahmad (co-supervisor) | **2015** | Synthesis and antibacterial activity of some new trimethoprim derivatives |
| 18 | Sadia Farooq | **2016** | Synthesis and biological activity of anthranilic acid derivatives |
| 19 | Sundus Rasheed | **2016** | Synthesis, characterization, bioevaluation and computational studies on quinolone derivatives |
| 20 | Huzaifa | **2016** | Synthesis and drug loading on SiO2 coated Fe3O4 nanoparticles in combating cancer |
| 21 | Ramzan Azhar | **2016** | Structural modification and bioevaluation of some commercial drugs containing carboxylic, amine and hydroxyl functionalities |

***External Examiner***

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| SINES | NUST Islamabad |
| Department of Chemistry | Quaid-i-Azam University, Islamabad |
| Department of Chemistry | University of Gujrat, Gujrat |
| Department of Chemistry | Quaid-i-Azam University, Islamabad |
| Department of Chemistry | University of AJ&K, Muzaffarabad |
| Department of Chemistry | Hazara University, Mansehra |
| Department of Chemistry | Federal Urdu University, Karachi |

***Pre-Ph.D. Teaching/ Research & Industrial Experiences (12 years)***

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| --- | --- | --- |
| Visiting Ph.D Scholar | Feb. 2010 – July 2010 | Christian Doppler Laboratory for Microwave Chemistry (CDLMC), Karl-Franzens University, Austria |
| Visiting Ph.D Scholar | July 2008-Sep. 2008 | Dr. Punjwani Centre for Molecular Medicines & Drug Research (PCMD), Karachi, Pakistan |
| Plant Manager | Feb. - Aug. 2009 | Neomedix Pharmaceuticals, Plot No. 5, N /5 National Industrial Zone, Rawat, Islamabad |
| Quality Control / Research & Development Manager | Aug 2005 –Jan 2009 | Neomedix Pharmaceuticals, Plot No. 5, N /5 National Industrial Zone, Rawat, Islamabad |
| Analyst/Manager QC | Oct. 1997 to July. 2005 | Islamabad Pharmaceutical Products, 34, Industrial Triangle, Islamabad. |

***List of Publications***

***Summary***

Total Publications ------------------------ 137

Book Chapters ----------3

Review Articles---------3

Research Articles ---- 130

Total Impact Factor ---------------------- 560

Citations 3349

*h*-index = 34

i10-index = 88

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| --- | --- | --- |
| ***Book Chapters*** | | |
| ***No.*** | ***Year*** | ***Complete Description*** |
| 1. | **2022** | Nishant Rai, Pramond Rawat, Rakesh K Bachheti, Navin Kumar, Abdul Rauf, **Umer Rashid,** Vijay Jyoti Kumar, Tanmay Sarkar, Raffaele Pezzani. Sustainable uses of medicinal plants and prospects; Chapter title, Characterization and docking studies of immunomodulatory active compounds from Rhododendron arboreum leaves. CRC / Taylor and Francis Books (Accepted 2022) |
| 2. | **2020** | Muahmmad Naveed Anjum, Shoaib Ahmad Malik, Choudhary Haseeb Bilal, Umer Rashid, Muhammad Nasif, Khalid Mahmood Zia. Chapter 13 - Polyhydroxyalkanoates-based bionanocomposites. Bionanocomposites; Green Synthesis and Applications: Micro and Nano Technologies. 2020, Pages 321-333  <https://www.sciencedirect.com/science/article/pii/B9780128167519000131#:~:text=Abstract,and%20bacteria%20and%20fermentation%20conditions>. |
| 3. | **2014** | **Umer Rashid**, Farzana Latif Ansari. ***Challenges in designing therapeutic agents for treating Alzheimer’s disease-From serendipity to rationality***. *Drug Design and Discovery in Alzheimer’s Disease* (Elsevier), (**2014)**, vol. 6 Chapter 2, pp 40-141 ISBN-13: 978-0128039595, ISBN-10: 0128039590 |

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| --- | --- | --- | --- |
| ***Research Articles (Published)*** | | | |
| **2024** | | | |
|  | **2023** | Mater H. Mahnashi, Umer Rashid\*, Hassan Hussain Almasoudi, Mohammed H. Nahari, Imran Ahmad, Abdulkarim S. Binshaya, Osama Abdulaziz, Meshari A. Alsuwat, Muhammad Saeed Jan, and Abdul Sadiq. Frontiers in Pharmacology (Accepted) | **5.6** |
|  | **2023** | Muhammad Imran Qayyum, Sami Ullah, **Umer Rashid**, Abdul Sadiq, Mater H. Mahnashi, Saif Ullah Khan Khalil, Muhammad Masoom Akhtar. N -phenyl and N-benzyl substituted succinimides: Preclinical evaluation for their antihypertensive effect and underlying mechanism. European Journal of Pharmacology, 964 (2024) 176195 | **5.0** |

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| **2023** | | | |
|  | **2023** | Abdur Rauf, Bassam Oudh Aljohny, **Umer Rashid**, Yasir Anwar, Zafar Ali Shah, Naveed Muhammad, Anees Ahmed Khalil, Ahood Khalid, Gauhar Rehman. In vitro anti-inflammatory, antidiabetic, antibacterial, and in silico studies of Ferruginan A isolated from Olea ferruginea Royle (Oleaceae). Saudi Pharmaceutical Journal 31 (2023) 101868 | **4.1** |
|  | **2023** | Kiran Shahzadi, Syed Majid Bukhari, Asma Zaidi, Tanveer A. Wani, Muhammad Saeed Jan, Seema Zargar, **Umer Rashid**, Umar Farooq, Aneela Khushal and Sara Khan. Novel Coumarin Derivatives as Potential Urease Inhibitors for Kidney Stone Prevention and Antiulcer Therapy: From Synthesis to In Vivo Evaluation. Pharmaceuticals 2023, 16, 1552. | **4.6** |
|  | **2023** | Zainab Bibi, Irfa Asghar , Naeem Mahmood Ashraf , Iftikhar Zeb, **Umer Rashid**, Arslan Hamid, Maria Kanwal Ali, Ashraf Atef Hatamleh, Munirah Abdullah Al-Dosary, Raza Ahmad and Muhammad Ali. Prediction of Phytochemicals for Their Potential to Inhibit New Delhi Metallo -Lactamase (NDM-1). Pharmaceuticals 2023, 16, 1404. | **4.6** |
|  | **2023** | Abdur Rauf, **Umer Rashid**, Aniqa Atta, Ishaq Khan, Zafar Ali Shah, Bushra Mobeen, Aneela Javed, Taghrid S. Alomar, Najla Almasoud, Saima Naz, Zubair Ahmad, Giovanni Ribaudo. Antiproliferative Activity of Lignans from Olea ferruginea: In Vitro Evidence Supported by Docking Studies. Front. Biosci. (Landmark Ed) 2023; 28(9): 216 | **3.1** |
|  | **2023** | Taghrid S AlOmar, Abdur Rauf, **Umer Rashid**, Sehrish Sarfaraz, Khurshid Ayub, Fahad Hussain, Najla Almasoud, Abdulaziz S AlOmar, Gauhar Rehman, Zubair Ahmad, Naveed Muhammad, Zafar Ali Shah. Molecular docking, DFT studies, and anti-inflammatory evaluation of peshawaraquinone isolated from Fernandoa adenophylla. J Biomol Struct Dyn. 2023:1-13. | **4.4** |
|  | **2023** | Sehrish Sarfaraz, Muhammad Yar, Ajaz Hussain, Ahmed Lakhani, Adnan Gulzar, Muhammad Ans, **Umer Rashid**, Masroor Hussain, Shabbir Muhammad, Imene Bayach\*, Nadeem S. Sheikh\* and Khurshid Ayub. Metallofullerenes as robust single atom catalysts for adsorption and dissociation of hydrogen molecule: A density functional study. Accepted ACS Omega (31-8-23) | **4.1** |
|  | **2023** | Waqas Alam, Haroon Khan, Muhammad Saeed, **Umer Rashid**, Ali Abusharha, Maria Daglia. Synthesis, in-vitro inhibition of cyclooxygenases and in-silico studies of New Isoxazole Derivatives. Frontiers in Chemistry | **5.5**  **2296-2646** |
|  | **2023** | Muhammad Shah, Muhammad Saeed Jan, Abdul Sadiq, Sara Khan, **Umer Rashid**. SAR and lead optimization of (Z)-5-(4-hydroxy-3-methoxybenzylidene)-3-(2-morpholinoacetyl)thiazolidine-2,4-dione as a potential multi-target antidiabetic agent. European Journal of Medicinal Chemistry 258 (2023) 115591 | **6.7**  **0223-5234** |
|  | **2023** | Qarib Ullah, Zarshad Ali, **Umer Rashid**, Gowhar Ali,\* Nisar Ahmad, Rasool Khan, Sami Ullah, Muhammad Ayaz, and H C Ananda Murthy. Involvement of the Opioidergic Mechanism in the Analgesic Potential of a Novel Indazolone Derivative: Efficacy in the Management of Pain, Neuropathy, and Inflammation Using In Vivo and In Silico Approaches. ACS Omega 2023, 8, 25, 22809–22819 | **4.1**  **2210-7177** |
|  | **2023** | Aneela Gohar, Gowhar Ali, **Umer Rashid**, Khalid Rauf, Mehreen Arif, Muhammad Sona Khan, Yasser MSA Alkahramaan, Robert DE Sewell. Effect of Gabapentin-Fluoxetine Derivative GBP1F in a Murine Model of Depression, Anxiety and Cognition. Drug Design, Development and Therapy 2023:17 1793–1803 | **4.319**  **1177-8881** |
|  | **2023** | Abdur Rauf, **Umer Rashid**, Abdullah Muhammad Shbeer, Mohammed Al-Ghorbani, Naveed Muhammad, Anees Ahmed Khalil, Humaira Naz, Rohit Sharma & Giovanni Ribaudo. Flavonoids from Pistacia chinensis subsp. integerrima with leishmanicidal activity: computational and experimental evidence. Natural Product Research (Accepted) | **2.488**  **1478-6419** |
|  | **2023** | Haleema Ali, Rasool Khan, Xiandao Pan, Farzana Shaheen, Almas Jabeen, Abdur Rauf, Muhammad Shah, **Umer Rashid**, Yahya S. Al-Awthan, Omar S. Bahattab, Mohammed A. Al-Duais, Mohammad S. Mubarak. Synthesis, characterization, anti-cancer, anti-inflammatory activities, and docking studies of 3, 5-disubstituted thiadiazine-2-thiones. Green Processing and Synthesis 2023; 12: 20228136 | **3.970**  **2191-9542** |
|  | **2023** | Abdur Rauf , **Umer Rashid**, Zafar Ali Shah, Gauhar Rehman, Kashif Bashir, Johar Jamil, - Iftikhar, Abdur Rahman, Abdulrahman Alsahammari, Metab Alharbi, Abdulmajeed Al-Shahrani, Giovanni Ribaudo. Anti-inflammatory and Anti-diabetic Activity of Ferruginan, a Natural Compound from Olea ferruginea. Processes (MDPI) 2023, 11, 545. | **3.352** |
|  | **2023** | Imene Bayach, Atazaz Ahsin, Safi Ullah Majid, **Umer Rashid**, Nadeem S. Sheikh, and Khurshid Ayub. Geometric, electronic, and optoelectronic properties of carbon-2 based polynuclear C3O[C(CN)2]2M3 (where M=Li, Na, and K) 3 clusters; A DFT study. Molecules 2023, 28(4), 1827 | **4.927** |
|  | **2023** | Mater H. Mahnashi , Waqas Alam , Mohammed A. Huneif, Alqahtani Abdulwahab, Mohammed Jamaan Alzahrani, Khaled S. Alshaibari, **Umer Rashid**, Abdul Sadiq, and Muhammad Saeed Jan. Exploration of Succinimide Derivative as a Multi-Target, Anti-Diabetic Agent: In Vitro and In Vivo Approaches. Molecules, 2023, 28, 1589 | **4.927** |
|  | **2023** | Mohammed A. Huneif , Mater H. Mahnashi, Muhammad Saeed Jan, Muhammad Shah, Sultan A. Almedhesh, Seham M. Alqahtani, Mohammad Jamaan Alzahrani, Muhammad Ayaz, Farhat Ullah, **Umer Rashid** and Abdul Sadiq. New Succinimide–Thiazolidinedione Hybrids as Multitarget Antidiabetic Agents: Design, Synthesis, Bioevaluation, and Molecular Modelling Studies. Molecules 2023, 28, 1207. | **4.927** |
|  | **2023** | Nargis Sultana, Muhammad Sarfraz, Sidra Akram, **Umer Rashid**, Syed Ali Raza Naqvi, Muhammad Tariq, Khalid Mahmood Zia, Muhammad Ramzan Saeed Ashraf Janjua. Reactivity of 2,2-Disubstituted Quinazolinone Towards Electrophilic Substitution: First In-Silico Design to Verify Experimental Evidence of Quinazolinone-based New Organic Compounds. Journal of Physical Organic Chemistry, (Accepted) 20 January 2023 | **2.155**  **0894-3230** |
|  | **2023** | Bushra Ansari, Haroon Khan, Muhammad Saeed Jan, Khalaf F. Alsharif, Khalid J. Alzahrani, **Umer Rashid**, and Abdul Saboor Pirzada. Synthesis, Characterization, and Pharmacokinetic Studies of Thiazolidine-2,4-Dione Derivatives. Journal of Chemistry, Volume 2023, Article ID 9462176 | **3.241**  **2090-9063** |
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