

Dr. Ghulam Yasin

State Key Laboratory of Chemical Resource Engineering
College of Materials Science and Engineering
Beijing University of Chemical Technology
Address: No. 15, North Third Ring Road, Chaoyang District, Beijing,
100029, China

Tel: 0086-132-6963-0077

Email: yasin@mail.buct.edu.cn

WOS ResearcherID: R-5722-2016

ORCID: 0000-0001-8794-3965



Publications: **42** | *h*-index: >**12** | i10-index: > **13** | Citations: > **406**

Source: Google Scholar: <https://scholar.google.com/citations?user=Q4TrHF5AAAAJ&hl=en>

Summary Statement

7 years working experience in the field of Nanoscale Functional Materials (Low Dimensional, Nano and 2D Materials): preparation of Carbon Materials including Graphene, Graphene Nanoribbons (GNRs), Carbon Nanotubes (CNTs) and Advanced Carbon-Based Nanoarchitected Materials for Energy Storage and Conversion Devices/Technologies. Designing and preparation of Multifunctional Nanocomposites for various Engineering Applications.

Education

2016 - 2020 Ph. D., Materials Science and Engineering
College of Materials Science and Engineering, Beijing University of Chemical Technology
Beijing, China

2013 - 2016 M. S., Materials Science and Engineering
College of Materials Science and Engineering, Beijing University of Chemical Technology
Beijing, China

2008 - 2012 Bachelor of Engineering, Metallurgy and Materials
Institute of Advanced Materials, Bahauddin Zakariya University, Multan, Pakistan

Professional Experience

- 2019-To date:** Research Associate, BUCT-CWRU International Joint Laboratory, State Key Laboratory of Chemical Resource Engineering, College of Materials Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China.
- 2013-2016:** Research Assistant, State Key Laboratory of Electrochemical Process and Technology for Materials, College of Materials Science and Engineering, Beijing University of Chemical Technology, Beijing 100029, China.
- 2012-2013:** Worked as Visiting Lecturer at College of Engineering and Technology Multan, Punjab, Pakistan.
- 2012:** Four Weeks Internship at Pakistan Foundry Association, Chicago Group of Industries Multan, Pakistan.

Honors and Awards

- **First Prize in Science and Technology Innovation** Award of the Year from Beijing University of Chemical Technology, Beijing, China – 2019
- **Outstanding Academic Achievement Award** of the year from The Embassy of Pakistan, Beijing, China – 2019
- **Outstanding Reviewer Award** from **Journal of Alloys and Compounds**, Elsevier, Amsterdam, The Netherlands – 2018
- **Awarded Research Star** of the Year from Beijing University of Chemical Technology, Beijing, China – 2018
- Awarded Certificate of Appreciation from **Global Competence Forum for Young Elites 2019**, held at Xidian University, Xian, China – 2019
- **Excellent Doctoral Candidate** from International Doctoral Students Forum, Study in China, China Scholarship Council (CSC), Ministry of Education, China – 2018
- **Excellent Presentation and Poster Award** from Global Young Talent Forum & the 2nd Sino-Foreign Postgraduate Exchange Forum, Beijing University of Chemical Technology, Beijing, China – 2018
- **Excellent Graduate Award** from Beijing University of Chemical Technology, Beijing, China – 2016
- **International Talent Award**, Promoted from Master to PhD, CSC Scholarship – 2016
- International **Ambassador** of Beijing University of Chemical Technology, for promoting the Chinese Culture and Exchange of Chinese and Foreign Education – 2016
- **Outstanding Academic Achievement Award** of the year from The Embassy of Pakistan, Beijing, China – 2015
- Excellent Student Award “**Star of Science**” from Beijing University of Chemical Technology, Beijing, China – 2015

- Provincial Government Honorary Award and Laptop prize “**Youth Punjab Talent Award**” to excellent students from Chief Minister of Punjab, Pakistan – 2011

Selected Publications

- G. Yasin**, M. Arif, T. Mehtab, M. Shakeel, M.A. Mushtaq, A. Kumar, T.A. Nguyen, Y. Slimani, M.T. Nazir, H. Song, “A Novel Strategy for the Synthesis of Hard Carbon Spheres Encapsulated with Graphene Networks as a Low-Cost and Large-Scalable Anode Material for Fast Sodium Storage with an Ultralong Cycle Life”, *Inorganic Chemistry Frontiers*, 7 (2020) 402-410. (RSC Publishing, Impact Factor: **5.934**).
- G. Yasin**, M. Arif, T. Mehtab, X. Lu, D. Yu, N. Muhammad, M.T. Nazir, H. Song, “Understanding and suppression strategies toward stable Li metal anode for safe lithium batteries”, *Energy Storage Materials*, 25 (2020) 644-678 (Elsevier Publishing, Cite Score: **15.9+**).
- G. Yasin**, M.A. Khan, W.Q. Khan, T. Mehtab, R.M. Korai, X. Lu, M.T. Nazir, M.N. Zahid, “Facile and large-scalable synthesis of low cost hard carbon anode for sodium-ion batteries”, *Results in Physics*, 14 (2019) 102404. (Elsevier Publishing, Impact Factor: **3.042**).
- T. Mehtab, **G. Yasin***, M. Arif, M. Shakeel, R.M. Korai, M. Nadeem, N. Muhammad, X. Lu, “Metal-organic frameworks for energy storage devices: Batteries and supercapacitors”, *Journal of Energy Storage*, 21 (2019) 632-646. (Elsevier Publishing, Impact Factor: **3.517**). ***Corresponding Author**.
- S. Ullah, **G. Yasin****, A. Ahmad, Q. Yuan, A.U. Khan, U.A. Khan, A. Rahman, “Construction of well-designed 1D Selenium-Tellurium nanorods anchored on graphene sheets as high storage capacity anode material in Lithium-ion battery” *Inorganic Chemistry Frontiers*, (2020), <https://doi.org/10.1039/C9QI01701A> (RSC Publishing, Impact Factor: **5.934**). ****Equal to first author**.
- M. Nadeem, **G. Yasin****, M. Arif, M.H. Bhatti, K. Sayin, M. Mehmood, U. Yunus, S. Mehboob, I. Ahmed, U. Flörke, “Pt-Ni@PC900 Hybrid derived from layered structure Cd-MOF for fuel cell ORR activity” *ACS Omega*, 5 (2020) 2123-2132. (ACS Publishing, Impact Factor: **2.584**). ****Equal to first author**.

13. M. Nadeem, **G. Yasin**, M.H. Bhatti, M. Mehmood, M. Arif, L. Dai, “Pt-M bimetallic nanoparticles (M = Ni, Cu, Er) supported on metal organic framework-derived N-doped nanostructured carbon for hydrogen evolution and oxygen evolution reaction” *Journal of Power Sources*, 402 (2018) 34-42. (Elsevier Publishing, Impact Factor: **7.467**).
12. M. Arif, **G. Yasin**, L. Luo, W. Ye, M. A. Mushtaq, X. Fang, X. Xiang, S. Ji, D. Yan, “Hierarchical hollow nanotubes of NiFeV-layered double hydroxides@CoVP heterostructures towards efficient, pH-universal electrocatalytic nitrogen reduction reaction to ammonia”, *Applied Catalysis B: Environmental*, 265 (2020) 118559. (Elsevier Publishing, Impact Factor: **14.229**).
11. M. Arif, **G. Yasin**, M. Shakeel, M.A. Mushtaq, W. Ye, X. Fang, S. Ji, D. Yan, “Hierarchical CoFe-layered double hydroxide and g-C₃N₄ heterostructures with enhanced bifunctional photo/electrocatalytic activity towards overall water splitting”, *Materials Chemistry Frontiers*, 3 (2019) 520-531. (RSC Publishing, Cite Score: **8.0+**).
10. M. Arif, **G. Yasin**, M. Shakeel, X. Fang, R. Gao, S. Ji, D. Yan, “Coupling of Bifunctional CoMn-Layered Double Hydroxide@Graphitic C₃N₄ Nanohybrids towards Efficient Photoelectrochemical Overall Water Splitting”, *Chemistry - An Asian Journal*, 13 (2018) 1045-1052. (Wiley Publishing, Impact Factor: **3.698**).
9. M. Shakeel, M. Arif, **G. Yasin**, B. Li, H.D. Khan, “Layered by layered Ni-Mn-LDH/g-C₃N₄ nanohybrid for multi-purpose photo/electrocatalysis: Morphology controlled strategy for effective charge carriers separation”, *Applied Catalysis B: Environmental*, 242 (2019) 485-498. (Elsevier Publishing, Impact Factor: **14.229**).
8. M. Shakeel, **G. Yasin**, M. Arif, X. Zhang, Z. Abbas, S. Khan, W. Rehman, U. Zaman, Z. Ul Haq Khan, B. Li, “A facile band alignment with sharp edge morphology accelerating the charge transportation for visible light photocatalytic degradation: A multiplex synergy”, *Journal of Water Process Engineering*, 32 (2019) 100985. (Elsevier Publishing, Impact Factor: **3.173**).
7. M. Shakeel, M. Arif, **G. Yasin**, B. Li, A.U. Khan, F.U. Khan, M.K. Baloch, “Hollow mesoporous architecture: A high performance Bi-functional photoelectrocatalyst for overall water splitting”, *Electrochimica Acta*, 268 (2018) 163-172. (Elsevier Publishing, Impact Factor: **5.383**).

6. M. Shakeel, B. Li, **G. Yasin**, M. Arif, W. Rehman, H.D. Khan, “In Situ Fabrication of Foamed Titania Carbon Nitride Nanocomposite and Its Synergetic Visible-Light Photocatalytic Performance”, *Industrial & Engineering Chemistry Research*, 57 (2018) 8152-8159. (ACS Publishing, Impact Factor: **3.375**).
5. M. Shakeel, B. Li, M. Arif, **G. Yasin**, W. Rehman, A.U. Khan, S. Khan, A. Khan, J. Ali, “Controlled Synthesis of highly proficient and durable hollow hierarchical heterostructured (Ag-AgBr/HHST): A UV and Visible light active photocatalyst in degradation of organic pollutants”, *Applied Catalysis B: Environmental*, 227 (2018) 433-445. (Elsevier Publishing, Impact Factor: **14.229**).
4. **G. Yasin**, M.J. Anjum, M.U. Malik, M.A. Khan, W. Q. Khan, M. Arif, T. Mehtab, T. A. Nguyen, Y. Slimani, M. Tabish, D. Ali, Y. Zuo , “Revealing the erosion-corrosion performance of sphere-shaped morphology of nickel matrix nanocomposite strengthened with reduced graphene oxide nanoplatelets”, *Diamond and Related Materials*, 104 (2020) 107763. (Elsevier Publishing, Impact Factor: **2.29**).
3. **G. Yasin**, M.A. Khan, M. Arif, M. Shakeel, T.M. Hassan, W.Q. Khan, R.M. Korai, Z. Abbas, Y. Zuo, “Synthesis of spheres-like Ni/graphene nanocomposite as an efficient anti-corrosive coating; effect of graphene content on its morphology and mechanical properties”, *Journal of Alloys and Compounds*, 755 (2018) 79-88. (Elsevier Publishing, Impact Factor: **4.175**).
2. **G. Yasin**, M. Arif, M. Shakeel, Y. Dun, Y. Zuo, W.Q. Khan, Y. Tang, A. Khan, M. Nadeem, “ Exploring the Nickel-Graphene Nanocomposite Coatings for Superior Corrosion Resistance: Manipulating the Effect of Deposition Current Density on its Morphology, Mechanical Properties, and Erosion-Corrosion Performance”, *Advanced Engineering Materials*, 20 (2018) 1701166. (Wiley Publishing, Impact Factor: **2.906**).
22. **G. Yasin**, M. Arif, M.N. Nizam, M. Shakeel, M.A. Khan, W.Q. Khan, T.M. Hassan, Z. Abbas, I. Farahbakhsh, Y. Zuo, “Effect of surfactant concentration in electrolyte on the fabrication and properties of nickel-graphene nanocomposite coating synthesized by electrochemical co-deposition”, *RSC Advances*, 8 (2018) 20039-20047. (RSC Publishing, Impact Factor: **3.049**).

Book Chapters

1. **G. Yasin**, et al., Nanostructured anode materials in rechargeable batteries, in book titled “Nanobatteries and Nanogenerators: Fundamentals and Applications” (**Accepted**), **Elsevier**: USA, Publication Date: September 2020.
2. **G. Yasin**, et al., Nanostructured cathode materials in rechargeable batteries, in book titled “Nanobatteries and Nanogenerators: Fundamentals and Applications” (**Accepted**), **Elsevier**: USA, Publication Date: September 2020.
3. **G. Yasin**, M. Arif, et al. Metallic Nanocomposite Coatings, In Book “Corrosion Protection at the Nanoscale”, (2020), Pages 245-274, **Elsevier**, USA, (ISBN: 978-0-12-819359-4). <https://doi.org/10.1016/B978-0-12-819359-4.00014-3>
4. M.J. Anjum, **G. Yasin** *, et al. Metal/Metal Oxide Nanoparticles as Corrosion Inhibitors, In Book “Corrosion Protection at the Nanoscale”, (2020), Pages 181-201, **Elsevier**, USA (ISBN: 978-0-12-819359-4). <https://doi.org/10.1016/B978-0-12-819359-4.00011-8> (*Corresponding author).
5. M. Irfan, **G. Yasin** *, et al. Corrosion Resistance of Nanostructured Metals and Alloys, In Book “Corrosion Protection at the Nanoscale”, (2020), Pages 63-87, **Elsevier**: USA (ISBN: 978-0-12-819359-4). <https://doi.org/10.1016/B978-0-12-819359-4.00005-2> (*Corresponding author).

Professional Services

- Assistant Editor of the Journal “*Materials International*”, AMG Transcend Association, 2019 – To date
https://materials.international/?page_id=20
- Member of the Editorial Board of the SCIREA *Journal of Materials*, 2018 – To date
<http://www.scirea.org/journal/EditorialBoard?JournalID=43000>
- Regular Reviewer for *Small*, 2020 – To date
- Regular Reviewer for *ACS Applied Nano Materials*, 2020 – To date
- Regular Reviewer for *Advanced Materials Interfaces*, 2019 – To date
- Regular Reviewer for *Journal of Alloys and Compounds*, 2018 – To date
- Regular Reviewer for more than 10 Scientific Journals, including *Advanced Engineering Materials*, *Philosophical Magazine*, *Materials Research Express*, *Science of Advanced Materials*, *International Journal of Materials Research*, *World Journal of Engineering*, *IEEE Access*, etc.

Memberships and Affiliations

- Awarded Executive Board Membership of BUCT Alumni 2019
- International Representative of Beijing University of Chemical Technology to Beijing Municipal Government.
- Representative for curriculum and extra curriculum activities of Beijing University of Chemical Technology.
- International Member of Cultural Society of Peking University, “Chinese Economy and Ancient Culture”.
- Membership of Pakistan Engineering Council (PEC).