Curriculum Vitae

Personal information

Title/First name/ Surname	**Prof. Dr. Imran Murtaza**
Present Address	Department of Physics, International Islamic University, Sector H-10, Islamabad, Pakistan.
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Nationality	Pakistani
Year of birth	1976
Gender	Male

Online profile links

Google Scholar - Imran Murtaza

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Web of Science ResearcherID:C-7907-2012

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Funded research projects

- *"Next-Generation Solid-State Batteries: Collaborative Innovation for Sustainable Energy Storage and Industrial Growth in Pakistan"* funded by HEC Pakistan worth PKR 15 million-**Awarded in June 2025**
- "*Investigation in advanced energy harvesters and energy storage devices for self-powered flexible energy systems*" funded jointly by British council UK and HEC Pakistan worth PKR 100 million-**Completed in June 2024**
- "*Flexible organic transistor-based chemical and temperature bimodal sensors for environmental pollution gases detection*" funded by Govt. of Guangdong province, China worth PKR 03 million-**Completed in June 2022**
- "*Development of stretchable polymer-based supercapacitors for energy storage systems*" funded by PSF-NSFC worth PKR 20 million-Project-**Completed in June 2021**
- "*Graphene Composite Solid-State Electrolyte for Lithium Battery*" funded by PSF-NSFC worth PKR 20 million-**Completed in June 2019**

Work experience

Dates	07 March, 2024 – To date
Occupation or position held	Professor (Tenured)/Incharge Dept. of Physics

Main activities and responsibilities	Head Flexible Electronics Laboratory (FEL), Teaching different courses of Physics at BS, MS and PhD levels and research in the areas of Organic/Flexible Electronics, specifically Energy Storage.
Name and address of the employer	Department of Physics, International Islamic University, Sector H-10, 44000 Islamabad (Pakistan)
Dates	12 July, 2018 – 06 March, 2024
Occupation or position held	Associate Professor (Tenured)/Incharge Dept. of Physics
Main activities and responsibilities	Teaching different courses of Physics at BS, MS and PhD levels and research in the area of Organic Electronics
Name and address of the employer	Department of Physics, International Islamic University, Sector H-10, 44000 Islamabad (Pakistan)
Dates	12 July, 2012 – 11 July, 2018
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching and research in areas of Applied Physics especially optoelectronic properties of thin film devices
Name and address of the employer	Dept. of Physics, International Islamic University, Sector H-10, 44000 Islamabad (Pakistan)
Dates	01 Dec 2015 – 30 Nov, 2017
Occupation or position held	Post-Doctoral Fellow
Main activities and responsibilities	Research in Organic electronics (Organic electrochromic devices, OLEDs, OTFTs, OSCs)
Name and address of the employer	Key Lab for Flexible Electronics & Institute of Advanced Materials, Jiangsu, National Synergistic Innovation Centre for Advanced Materials (SICAM), Nanjing Tech University, 30 South Puzhu Road, Nanjing, 211816, P. R. China in collaboration with School of Advanced Materials, Peking University Shenzhen Graduate School, Peking University, Shenzhen (China)
Dates	19 August, 2011 – 11 July, 2012
Occupation or position held	Assistant Professor
Main activities and responsibilities	Teaching and research in Applied Physics
Name and address of the employer	Dept. of Electrical Engineering, COMSATS Institute of Information Technology Kamra Road, 43600 Attock (Pakistan)
Dates	25 February, 2011 – 18 August, 2011
Occupation or position held	Lecturer
Main activities and responsibilities	Teaching Applied Physics
Name and address of employer	Dept. of Electrical Engineering, COMSATS Institute of Information Technology Kamra Road, 43600 Attock (Pakistan)

Dates	15 February, 2010 – 31 July, 2010
Occupation or position held	Researcher
Main activities and responsibilities	Impedance Spectroscopic analysis of Organic semiconductor thin film devices based on Phthalocyanines.
Name and address of employer	Dept. of Physics and Atmospheric Science, Dalhousie University6310 Coburg Road, b3h 3j5 Halifax (Canada)
Dates	08 January, 2001 –30 June, 2005
Occupation or position held	Senior Teacher
Main activities and responsibilities	Teaching Physics from O-levels to undergraduate level.
Name and address of employer	Army Public School and Degree College Warsak Road, 25000 Peshawar (Pakistan)

Education and training

Dates	03 June 2008 - 02 June 2011
Title of qualification awarded	PhD in Applied Physics
Title of Dissertation	Fabrication and Electrical Characterization of Organic semiconductor Phthalocyanine-Based Electronic Devices
Name of organisation providing education and training	Ghulam Ishaq Institute of Engineering Sciences and Technology 23640 Topi (Pakistan)
Dates	01 September 2006 - 02 June 2008
Title of qualification awarded	MS in Engineering Sciences/Applied Physics
Title of Thesis	Electrical Properties of Organic semiconductor Copper Pthalocyanine-Metal schottky type junction
Name of organisation providing education and training	Ghulam Ishaq Khan Institute of Engineering Sciences and Technology 23640 Topi (Pakistan)
Dates	1997 - 1999
Title of qualification awarded	MSc
Field	Physics
Name of organisation providing education and training	University of Peshawar 25000 Peshawar (Pakistan)

Areas of expertise

Energy storage (supercapacitors, batteries), Solar Energy Technology (solar energy, organic solar cells, photovoltaic devices), Surface, Interface and Thin Films (nanostructured organic surface, ultra-thin films, metal/organic interface), Flexible Electronics (photovoltaic devices, organic sensors, energy storage devices)

Awards

- Higher Education Commission Pakistan, MS Leading to PhD Scholarship.
- GIK Institute of Engineering Sciences and Technology, Topi, Pakistan, Highest CGPA in both Ms and PhD course work. (CGPA=3.62 and 3.67 in Ms and PhD respectively)
- Six months research scholarship under International Research Support Initiative Program (IRSIP) offered by Higher Education Commission Pakistan.

Published journal papers

Dated: 01 August 2025

Citations	2288
h-index	28
i10-index	60
Cumulative *IF*	***~ 426.5***

1. Muhammad Shahid Khan, Hong Meng, Ahmed Shuja, Hasan Ali, Hassan Tariq, Rehan Ullah, Abdullah Saad Alsubaie, Mohd Zahid Ansari, Yaqoob Khan, **Imran Murtaza***. *Polybenzimidazole-1D interconnected carbon framework decorated with nickel manganese oxide nanoparticles for hybrid supercapacitors*. Chemical Engineering Journal 520, 166176, 2025 (IF = 13.2)
2. Muniba Ahmad, Ahmed Shuja, **Imran Murtaza**, Shah Fahad, Muhammad Shahid Khan. *Synergistic Integration of MXenes with Conducting Polymers to Enhance the Specific Capacitance of Asymmetric Supercapacitors*. Journal of Materials Science: Materials in Electronics 36, 1096, 2025 (IF = 2.8)
3. Qilin Zhang, Xiong Liu, Yaowu He, Mingming Yan, **Imran Murtaza**, Dongwen Zou, Tianhe Xu, Ying Cui, Lintao Zeng, Hong Meng. *High optical contrast and stable black electrochromic devices enabled by viologen and fluoran materials*. Chemical Engineering Journal 516, 164117, 2025 (IF = 13.2)
4. Xiangwen Wu, Dongwen Zou, Dongwei Zhang, **Imran Murtaza**, Meimei Zhu, Yanan Zhu, Yaowu He, Hong Meng. *Electrochromic Triarylamine-Based Polyamides and Their Application in Intelligent Color-Varying Windows*. Macromolecular Rapid Communications 46, 2401071, 2025 (IF = 4.3)
5. Muniba Ahmad, Ahmed Shuja, **Imran Murtaza**, Shah Fahad, Muhammad Shahid Khan. *Elevating Wearable Tech by Exploring Mxene-pBOA-NiO-rGO: A Quaternary Composite for Enhanced Energy Storage in Symmetric Supercapacitors*. Ionics 31, 7313, 2025 (IF = 2.6)
6. Muhammad Azam Khan, Hassan Tariq, Muhammad Shahid Khan, Ahmed Shuja, Muhammad Musharaf, Saikh Mohammad Wabaidur, Mohd Zahid Ansari, Yaqoob Khan, **Imran Murtaza***. *Advanced electrode materials: The role of double-linker Ni and Co metal-organic frameworks in electrochemical energy storage*. Journal of Energy Storage 115, 115920, 2025 (IF = 8.9)

7. Waqas Shoukat, Muhammad Zahir Iqbal, **Imran Murtaza**, Ayesha Zakir, Nacer Badi, Ahmed M Fouda, HH Hegazy. *Boosting electrochemical performance of barium-benzene-1, 3, 5-tricarboxylic acid and aniline-derived polybenzoxazole composite (Ba-BTC/pBOA) as battery grade electrode material for hybrid supercapacitors*. Journal of Energy Storage 114, 115533, 2025 (IF = 8.9)
8. Xiangwen Wu, Xiaopeng Zhang, Dongwei Zhang, **Imran Murtaza**, Dongwen Zou, Meimei Zhu, Yanan Zhu, Yaowu He, Hong Meng. *Intelligent color-varying windows: High contrast electrochromic triarylamine-based polyimide devices*. Sustainable Materials and Technologies 43, e01303, 2025 (IF = 8.7)
9. Yu Cai, Ke Lu, **Imran Murtaza**, Ming Liu, Siqin Sun, Zhenyuan Mei, Xingchen Liu, Mengran Xiao, Shuai Chang, Meili Xu, Yaowu He, Hong Meng. *High-Performance electrochromic polymers Enabled by Side-Chain engineering for intelligent windows and supercapacitors*. European Polymer Journal 228, 113796, 2025 (IF = 5.8)
10. Waqas Shoukat, MZ Iqbal, **Imran Murtaza**, Prakash Kanjariya, Asha Rajiv, Debasish Shit, Helen Merina Albert, Satish Kumar Samal, Abhinav Kumar, Saikh M Wabaidur. *Optimizing hybrid supercapacitor performance through synergistic integration of metal–organic frameworks and metal oxides*. RSC advances 15, 25221, 2025 (IF = 4.6)
11. Naimat Ullah, Ahmed Shuja, Syed Mujtaba Shah, Rotaba Ansir, Khalid A Alrashidi, Saikh Mohammad, Mohd Zahid Ansari, **Imran Murtaza***. *Enhancing dye-sensitized solar cells efficiency through organic dyes-sensitized holmium-doped TiO_2/SnO_2 nanocomposites blended with P3HT*. Optical Materials 157, 116255, 2024 (IF = 3.8)
12. Ahmed Shuja, Humaira Rashid Khan, **Imran Murtaza**, Saba Ashraf, Yousra Abid, Fakhra Farid, Fatima Sajid. *Supercapacitors for energy storage applications: Materials, devices and future directions: A comprehensive review*. Journal of Alloys and Compounds 1009, 176924, 2024 (IF = 5.8)
13. Ayesha Zahid, Muhammad Shahid Khan, **Imran Murtaza**, Shaista Shahzada. *Unveiling the power of laser-modified black TiO2 nanospheres as efficient supercapacitor electrodes*. Materials Letters 372, 137004, 2024 (IF = 2.7)
14. Yousra Abid, Ahmed Shuja, Muhammad Ali, **Imran Murtaza**. *Output current boosting in triboelectric nanogenerators for applications in self-powered energy systems.* Engineering Science and Technology, an International Journal 55, 101749, 2024 (IF = 5.1)
15. Muhammad Shahid Khan, **Imran Murtaza***, Ahmed Shuja, Humaira Rashid Khan, Rehan Abid, Carlos García Nuñez, Shah Fahad, Hassan Tariq, Aneeqa Naveed. *Tailored NiO-pBOA-GNP ternary nanocomposite: Advances in flexible supercapacitors and practical applications for wearable technology and environmental monitoring*. Journal of Energy Storage 86, 111128, 2024 (IF = 9.4)

16. Muhammad Shahid Khan, **Imran Murtaza***, Ahmed Shuja, Shah Fahad, Muhammad Waqas Khan, Junaid Ahmmad, Saikh Mohammad Wabaidur, Mohd Zahid Ansari. *Energy On-The-Go: V2O5-pBOA-Graphene Nanocomposite for Wearable Supercapacitor Applications*. Electrochemica Acta, 486, 144119, 2024 (IF = 6.6)
17. Waqas Shoukat, Muhammad Zahir Iqbal, Asma Khizar, **Imran Murtaza**, Shahid Alam, Rashid Ali, Saikh Mohammad Wabaidur, Mian Muhammad Faisal. *Investigating the influence of copper benzene-1,2-dicarboxylate (Cu-BDC) and benzene-1,3,5-tricarboxylate ligands (Cu-BTC) on the electrochemical capacity of hybrid supercapacitors*. Current Applied Physics 64, 40, 2024 (IF = 2.4)
18. Changchun Kuang, Siqi Li, **Imran Murtaza**, Zhimin Meng, Hongyang Li, Xinkang Zhang, Chengcheng Wu, Kai-Ning Tong, Yifan Shang, Yaowu He, Yanan Zhu, Guodan Wei, Hong Meng. *Enhanced Horizontal Dipole Orientation by Novel Penta-Helicene Anthracene-Based Host for Efficient Blue Fluorescent OLEDs*. Small 20, 2311114, 2024 (IF = 13.3)
19. Muhammad Shahid Khan, **Imran Murtaza***, Ahmed Shuja, Muhammad Adeel Asghar, Carlos García Nuñez, Rehan Abid, Ali Haider, Muhammad Faraz. *Unveiling the electrochemical advantages of a scalable and novel aniline-derived polybenzoxazole-reduced graphene oxide composite decorated with manganese oxide nanoparticles for supercapacitor applications*. Journal of Energy Storage 73, 109109, 2023 (IF = 9.4)
20. Shabhe Haider, Rehan Abid, **Imran Murtaza*,** Ahmed Shuja. *Unleashing Enhanced Energy Density with PANI/NiO/Graphene Nanocomposite in a Symmetric Supercapacitor Device, Powered by the Hybrid PVA/Na_2SO_4 Electrolyte.* ACS Omega 8, 46002, 2023 (IF = 4.1)
21. Ahmed Shuja, Shah Fahad, Muhammad Ali, Saba Ashraf, **Imran Murtaza**. *Development and performance evaluation of reduced graphene oxide based all-flexible supercapacitors with open and short circuit tests*. Journal of Materials Science: Materials in Electronics 34, 2151, 2023 (IF = 2.8)
22. Shabhe Haider, Rehan Abid, **Imran Murtaza***, Ahmed Shuja, Abdul Basit, Muhammad Adeel Asghar. *Exploring the Synergistic Effect of a PANI/Cr2O3/Graphene Nanocomposite in a Hybrid Gel Electrolyte for Supercapacitor Performance*. Journal of Electronic Materials 52, 7576, 2023 (IF = 2.1)
23. Ali Raza, Rehan Abid, **Imran Murtaza***, Tianju Fan. *Room temperature NH3 gas sensor based on PMMA/RGO/ZnO nanocomposite films fabricated by in-situ solution polymerization*. Ceramics International 49, 27050, 2023 (IF = 5.2)
24. Tianju Fan, Lingfeng Jian, Xinwen Huang, Shiyang Zhang, **Imran Murtaza**, Rehan Abid, Yidong Liu, Yonggang Min. *Enhanced photocatalytic activity of multifunctional graphene quantum dots decorated TiO2 film for dye-sensitized solar cells*. Journal of Materials Science: Materials in Electronics 33, 24048, 2022 (IF = 2.478)

25. Muhammad Afzaal Khan, Naeem Ahmed, Muhammad Shahid Khan, Hamza Shahid, **Imran Murtaza**, Nazar Abbas, Khalid Javed, Adnan Gulab, Suleman Khan. *Silver nanowires/polypyrrole nanostructured composite as an alternative electrocatalytic material for dye-sensitized solar cells*. Optik 268, 169734, 2022 (IF = 2.443)
26. Shabhe Haider, **Imran Murtaza***, Ahmed Shuja, Rehan Abid, Hasan Ali, Muhammad Adeel Asghar, Yaqoob Khan. *Enhanced Energy Density of PANI/Co3O4/Graphene Ternary Nanocomposite in a Neutral Aqueous Electrolyte of Na2SO4 for Supercapacitor Applications*. Journal of Electronic Materials 51, 5417, 2022 (IF = 1.938)
27. Tianju Fan, Lingfeng Jian, Cunsheng Liu, **Imran Murtaza**, Rehan Abid, Ahmed Shuja, Yidong Liu, Yonggang Min. *Controlled synthesis of the state-of-the-art quasi one-dimensional graphene nanostructure for high performance supercapacitor*. Synthetic Metals 289, 117131, 2022 (IF = 3.266)
28. Miao Zhu, **Imran Murtaza**, Wei Xie, Songquan Li, Changwei Zou, Yanxiong Xiang. *Reduced Graphene Oxide/MXene-Derived TiO_2 Hybrid Interface Layer for the Improvement of Zinc Oxide Nanorod Growth and Their Applications in Glutathione Sensing*. Nano 17, 2250063, 2022 (IF = 1.556)
29. Ghfoor Muhammad, **Imran Murtaza***, Rehan Abid, Naeem Ahmad. *Effect of different catalysts and growth temperature on the photoluminescence properties of zinc silicate nanostructures grown via vapor-liquid-solid method*. Chinese Physics B 31, 057801, 2022 (IF = 1.494)
30. Hafeez Ur-Rehman, Ahmed Shuja, Muhammad Ali, M Shahzad Khan, **Imran Murtaza**, Hong Meng. *Investigation of charge and current dynamics in PVA–KOH gel electrolyte-based supercapacitor*. Journal of Materials Science: Materials in Electronics 33, 2322, 2021 (IF = 2.478)
31. Mubashir Shah, **Imran Murtaza***, Rehan Abid, Ahmed Shuja, Hong Meng, Naeem Ahmed. *Fluorene substituted thieno [3, 2-b] thiophene–a new electrochromic conjugated polymer*. Journal of Polymer Research 28, 397, 2021 (IF = 3.097)
32. Wenlu Chen, Jiaoyi Ning, Yue Sun, Guofu Zhou, **Imran Murtaza**, Ahmed Shuja, Yaowu He, Igor F Perepichka, Hong Meng. *Thiophene-2, 5-diesters as electrochromic materials: The effect of ester groups on the device performance and stability*. Organic Electronics 96, 106188, 2021 (IF = 3.721)
33. Liaqat Ali Azam, Affan Safeer, Naeem Ahmed, Andrés Rosales-Rivera, Suleman Khan, **Imran Murtaza**. *Magnetic hardening and exchange bias effect in dual-phase Co_3Mn nanowire arrays*. Applied Physics A 127, 398, 2021 (IF = 2.584)
34. Yasir Ul Haq, **Imran Murtaza***, Sadaf Mazhar, Naeem Ahmad, Awais A Qarni, Zeeshan Ul Haq, Shahid A Khan, Mahmood Iqbal. *Investigation of improved dielectric and thermal properties of ternary nanocomposite PMMA/MXene/ZnO fabricated by in-situ bulk polymerization*. Journal of Applied Polymer Science 137, 49197, 2020 (IF = 2.52)

35. Mohsin Hassan Saeed, Shehzad Ahmed, Imran Muhammad, **Imran Murtaza**, Awais Ghani, Ahsan Ali, Raies Abdullah, Abdul Khaliq. *Molybdenum carbide nano-sheet as a high capacity anode material for monovalent alkali metal-ion batteries—Theoretical investigation*. Physics Letters A 384, 126688, 2020 (IF = 2.278)
36. **Imran Murtaza**, Muhammad U Ali, Hongtao Yu, Huai Yang, Muhammad Tariq Saeed Chani, Khasan S Karimov, Hong Meng, Wei Huang, Abdullah M Asiri. *Recent Advancements in High-Performance Solid Electrolytes for Li-ion Batteries: Towards a Solid Future*. Current Nanoscience 16, 507, 2020 (IF = 1.836)
37. Fangcheng Qiu, Daqi Fang, Junwu Bai, Tian Zhang, Yanan Zhu, Jingsheng Miao, **Imran Murtaza**, Zhao Hu, Chaoyi Yan, Hong Meng. *Anthracene derivatives as highly efficient deep-blue emitters with extremely low driving voltages, Von≤ 2.7 V*. Dyes and Pigments 180, 108458, 2020 (IF = 4.613)
38. Sadaf Mazhar, Awais Ali Qarni, Yasir Ul Haq, Zeeshan ul Haq, **Imran Murtaza***, Naeem Ahmad, Nida Jabeen, Shahid Amin. *Electrospun PVA/TiC Nanofibers for High Performance Capacitive Humidity Sensing*. Microchemical Journal, in Press, https://doi.org/10.1016/j.microc.2020.104974 (IF = 3.206)
39. Hafeez Ur Rehman, Ahmed Shuja, Muhammad Ali, **Imran Murtaza**, Hong Meng. *Evaluation of defects and current kinetics for aging analysis of PEDOT: PSS based supercapacitors*. Journal of Energy Storage 28, 101243, 2020 (IF = 3.517)
40. Yasir Ul-Haq, **Imran Murtaza***, Sadaf Mazhar, Rizwan Ullah, Mahmood Iqbal, Awais Ali Qarni, Shahid Amin. *Dielectric, thermal and mechanical properties of hybrid PMMA/RGO/Fe_2O_3 nanocomposites fabricated by in-situ polymerization*. Ceramics International, 46, 5828-5840, 2020 (IF = 3.450)
41. Naeem Ahmad, Abdul Majid, Saira Parveen, Wiqar Hussain Shah, Faryal Mughal, Suleman Khan, **Imran Murtaza**. *Structural and Uniaxial Magnetic Anisotropy of $Co_{1-X}Mg_X$ (X= 0.04–0.12) Nanowires in Alumina Templates*. Journal of Superconductivity and Novel Magnetism 33, 809-815, 2020 (IF = 1.130)
42. Zhimin Meng, He Zhang, Miao Zhu, Xiaoyun Wei, Jupeng Cao, **Imran Murtaza**, Muhammad Umair Ali, Hong Meng, Jiayue Xu. *Lead Zirconate Titanate (a piezoelectric ceramic)-Based thermal and tactile bimodal organic transistor sensors*. Organic Electronics, 80, 105673, 2020 (IF = 3.495)
43. Sadaf Mazhar, Awais Ali Qarni, Yasir Ul Haq, Zeeshan Ul Haq, **Imran Murtaza***. *Promising PVC/MXene based flexible thin film nanocomposites with excellent dielectric, thermal and mechanical properties*. Ceramics International, 46, 12593-12605, 2020 (IF = 3.450)
44. Khasan S Karimov, Zubair Ahmad, Jolly Bhadra, Jameel-Un Nabi, Meng Hong, M Mehran Bashir, Khakim M Ahkmedov, **Imran Murtaza**, M Umair Khan. *Design of a Semiconductor Photoelectrochemical Cell Using Orange Dye and NaCl Aqueous Solutions*. Int. Journal of Electrochemical Sciences. 15, 3189-3195, 2020

45. Yumeng Liu, **Imran Murtaza**, Ahmed Shujia, Hong Meng. *Interfacial modification for heightening the interaction between PEDOT and substrate towards enhanced flexible solid supercapacitor performance*. Chemical Engineering Journal, 379, 122326, 2020 (IF = 8.355)
46. Pengfei Zhang, Xing Xing, Yueyi Wang, **Imran Murtaza**, Yaowu He, Joseph Cameron, Shuja Ahmed, Peter J Skabara, Hong Meng. *Multi-colour electrochromic materials based on polyaromatic esters with low driving voltage*. Journal of Materials Chemistry C, 7, 9467-9473, 2019 (IF = 5.976)
47. Xiaoya Zhou, Jiawei Zhu, Yao Lu, Yizhou Zhang, Ying Hong, Wenjun Wang, Khasan S Karimov, **Imran Murtaza**, Qian Wang, Xiaochen Dong. *Three-dimensional Co-SP Nanoflowers as Highly Stable Electrode Materials for Asymmetric Supercapacitors*. ACS Sustainable Chemistry & Engineering, 7, 11448-11454, 2019 (IF = 6.970)
48. Tianju Fan, Guangxing Zhang, Lingfeng Jian, **Imran Murtaza**, Hong Meng, Yidong Liu, Yong Min. *Facile synthesis of defect-rich nitrogen and sulfur Co-doped graphene quantum dots as metal-free electrocatalyst for the oxygen reduction reaction*. Journal of Alloys and Compounds, 792, 844-850 (IF = 4.175)
49. Naeem Ahmad, Abdul Majid, Saira Parveen, Wiqar Hussain Shah, Faryal Mughal, Suleman Khan, **Imran Murtaza**. *Structural and Uniaxial Magnetic Anisotropy of Co1-XMgX(X = 0.04–0.12) Nanowires in Alumina Templates*. Journal of Superconductivity and Novel Magnetism, 1-7, 2019 (IF = 1.130)
50. Jupeng Cao, Xiaoyun Wei, Yuxuan Che, Aiyuan Li, Yaowu He, Chao He, Yanan Zhu, Xiaolong Chen, Tingting Li, **Imran Murtaza**, Lijia Yan, Dmitrii F Perepichka, Hong Meng. *Polysiloxane–poly (vinyl alcohol) composite dielectrics for high-efficiency low voltage organic thin film transistors*. Journal of Materials Chemistry C, 7, 4879-4886, 2019 (IF = 5.976)
51. Weishuo Li, Yitong Guo, Yilin Wang, Xing Xing, Xiaolong Chen, Jiaoyi Ning, Hongtao Yu, Yuhao Shi, **Imran Murtaza** and Hong Meng. *A "chain–lock" strategy to construct a conjugated copolymer network for supercapacitor applications*. Journal of Materials Chemistry A, 7, 116-123, 2019 (IF = 9.931)
52. Muhammad Awais, Naeem Ahmad, Suleman Khan, Affan Safeer, Khalid Javed, **Imran Murtaza**, Abdul Majid. *Voltage dependent physical, dielectric and magnetic properties of electrodeposited Co1−xMnx alloy nanowires*. Journal of Magnetism and Magnetic Materials, 474, 207-214, 2019 (IF = 3.046)
53. Adil Nawab, **Imran Murtaza***, Naeem Ahmad and Muhammad Sajjad. *Humidity dependent impedance response of graphene/carbon nanotubes composite*. Materials Research Express, 5, 095028, 2018 (IF = 1.151)
54. Yuyang Yin, Weishuo Li, Xianzhe Zeng, Panpan Xu, **Imran Murtaza**, Yitong Guo, Yumeng Liu, Tingting Li, Jupeng Cao, Yaowu He and Hong Meng. *Design Strategy for Efficient Solution-Processable Red Electrochromic Polymers Based on Unconventional 3,6-Bis(dodecyloxy)thieno[3,2-b]thiophene Building*. Macromolecules, 51, 7853-7862, 2018 (IF = 5.914)

55. Yu He, Shenghui Guo, Yaowu He, **Imran Murtaza**, Aiyuan Li, Xianzhe Zeng, Yitong Guo, Yang Zhao, Xiaolong Chen and Hong Meng. *Investigating the Thermal Stability of Organic Thin-Film Transistors and Phototransistors Based on [1]-Benzothieno-[3,2-b]-[1]-benzothiophene Dimeric Derivatives*. Chemistry–A European Journal, 24, 16595-16602, 2018 (IF = 5.160)
56. Yilin Wang, Weishuo Li, Yitong Guo, Jupeng Cao, **Imran Murtaza**, Ahmed Shuja, Yaowu He, and Hong Meng. *Recombination Strategy for Processable Ambipolar Electroactive Polymers in Pseudocapacitors.* Macromolecules, 51, 5258–5266, 2018 (IF = 5.914)
57. Yanan Zhu, Xiuru Xu, Xuepeng Zhang, Yaowu He, Xianzhe Zeng, **Imran Murtaza**, Hong Meng. *Computational screening and molecular design of anthracene-based semiconductors*. Organic Electronics, 61, 87-95, 2018 (IF = 3.680)
58. Shenghui Guo, Yaowu He, **Imran Murtaza**, Jiahui Tan, Junyou Pan, Yitong Guo, Yanan Zhu, Yu He, Hong Meng. *Alkoxy substituted [1]benzothieno[3,2-b][1]benzothiophene derivative with improved performance in organic thin film transistors*. Organic Electronics, 56, 68-75, 2018 (IF = 3.680)
59. Zhao Hu, Jingsheng Miao, Tingting Li, Ming Liu, **Imran Murtaza** and Hong Meng. *Reduced interface losses in inverted perovskite solar cells by using a simple dual-functional phenanthroline derivative*. Nano Energy, 43, 72-80, 2018 (IF = 13.120)
60. Naeem Ahmad, Fahad Hassan, Suleman Khan, Abdul Majid, Affan Safeer, Ahmad Saeed, **Imran Murtaza**, S. Ahmed, X. F. Han. *Mobility and perpendicular magnetic anisotropy in electrodeposited $Co_{32}Fe_{67}B_1$ thin films using boric acid as boron source*. Journal of Magnetism and Magnetic Materials, 458, 156-163, 2018 (IF = 3.046)
61. Yingshuang Zhang, **Imran Murtaza** and Hong Meng. *Development of fullerenes and their derivatives as semiconductors in field effect transistors: exploring the molecular design*. Journal of Materials Chemistry C, 6, 3514-3537, 2018 (IF = 5.976)
62. Mo Chen, Yanan Zhu, Chao Yao, Dongwei Zhang, Xingwei Zeng, **Imran Murtaza**, Haibiao Chen, Seiya Kasai, Hong Meng, Osamu Goto. *Intrinsic charge carrier mobility in single-crystal OFET by "fast trapping vs. slow detrapping" model*. Organic Electronics, 54, 237-244, 2018 (IF = 3.680)
63. Yaowu He, Wenjun Xu, **Imran Murtaza**, Chao Yao, Yanan Zhu, Aiyuan Li, Chao He and Hong Meng. *A chrysene-based liquid crystalline semiconductor for organic thin-film transistors*. Journal of Materials Chemistry C, 6, 3683-3689, 2018 (IF = 5.976)
64. Mengyun Chen, Lijia Yan, Yang Zhao, **Imran Murtaza**, Hong Meng and Wei Huang. *Anthracene-based semiconductors for organic field-effect transistors*. Journal of Materials Chemistry C, 6, 7416-7444, 2018 (IF = 5.976)

65. Ghulam Murtaza, Shahid Mehmood, Shahid Rasul, **Imran Murtaza**, Ehsan Ullah Khan. *Dosimetric effect of limited aperture multileaf collimator on VMAT plan quality: A study of prostate and head-and-neck cancers*. Reports of Practical Oncology and Radiotherapy, 23, 189-198, 2018 (IF = 0.690)
66. Sen Peng, Jingsheng Miao, **Imran Murtaza**, Liang Zhao, Zhao Hu, Ming Liu, Tingbin Yang, Yongye Liang, Hong Meng and Wei Huang. *An efficient and thickness insensitive cathode interface material for high performance inverted perovskite solar cells with 17.27% efficiency*. Journal of Materials Chemistry C, 5, 5949-5955, 2017 (IF = 5.976)
67. Aiyuan Li, Lijia Yan, Ming Liu, **Imran Murtaza**, Chao He, Dongwei Zhang, Yaowu He and Hong Meng. *Highly responsive phototransistors based on 2,6-bis(4-methoxyphenyl)anthracene single crystal*. Journal of Materials Chemistry C, 5, 5304-5309, 2017 (IF = 5.976)
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