Curriculum Vitae

Personal Information

Dr. Muhammad Yaseen
Father's Name: Muhammad Azeem
Nationality: Pakistani
Marital status: Married
Qualification: Ph.D., Post-Doc
Teaching and Research Experience: More than 11 Years
Date of birth: 15-03-1983
CNIC. No. 31101-0726878-7
Domicile: Bahawalnagar (Punjab)
Present Position: Associate Professor in Physics, Univ. of Agriculture, Faisalabad.
Present Address# Department of Physics, University of Agriculture, Faisalabad.
Email: myaseen_taha@yahoo.com , m.yaseen@uaf.edu.pk
Mobile: +92 3314700425

Academic Qualification

Post-Doc (2013-2014)
Xi'an Jiaotong University, Xi'an (China)
Doctrate (2008-2013)
Electronics Science and Technology (Applied Physics)
Xi'an Jiaotong University, Xi'an (China)
Master of Science
University of Engineering & Technology, Lahore (Pakistan)
Master of Science in Applied Physics (2003-2005)
Major: Advanced Electronics
CGPA/Class: 1st class
Bachelor of Science
Islamia University Bahawalpur (Pakistan)
Bachelor of Science (2000-2003)
Major: Math-Physics
CGPA/Class: 1st
LINGUISTIC COURSES
Chinese Language Course for one year (2008-2009)
AWARD
Cultural Exchange Scholarship for PhD Program
Research Experience:

- Simulation, Fabrication of Films and Devices, Sol-Gel Method, RF Sputtering, Pulse Laser Deposition, Lithography,

Characterization
XRD, AFM, SEM, P-E Loop Measurements, I-V measurements, C-V measurement, Pyroelectric measurements, Electron Emission Measurements
RESEARCH INTERESTS
Ferroelectrics and Antiferroelectric Materials, Ferroelectric Solar Cells, Fabrication of Devices, Simulation (Density Functional Theory), Nanomaterials

A. Teaching

Materials Science, Magnetic Materials, Modern Physics, Instrumentation and dvances Analytical Technique, Thermal and Statistical Physics, Applied Physics, Electronics(Laboratory Course-III), Environmental Physics, Basic Electronics

B. Student Supervision (During 2014-2023)

Sr. No.	Type	Role	No. of Students Supervised
1.	Ph.D	Supervisor	04 completed 05 In Progress
2.	Ph.D	Member	04 completed 03 In Progress
3.	MS/M.Phil	Supervisor	80 Completed 10 In Progress
4.	MS/M.Phil	Member	15 Completed 08 In Progress
5.	M.Sc(tech.report)	Supervisor	60 Completed 10 In Progress

i. Ph.D. Students

Sr. No	Name	Reg. No	Topic
1.	Muhammad Shafique	2002-ag-1356	Carbon quantum dot supported titanium dioxide nanocomposites as efficient visible light photocatalyst completed
2.	Hina Ambreen	2018-ag-4547	Physical Characteristics of Transition Metal doped Be based Binary Compounds By First Principles Method completed
3.	Mehwish Khalid Butt	2013-ag-6391	First Principle Study of Physical Characteristics of Rare Earth Metal Based Perovskites completed
4.	M. Zafar Ullah Kazim	2019-ag-2621	Physical Properties of Barium Based Double Perovskite Compounds by Density Functional Theory completed
5.	Mudassir Ishfaq	2018-ag-4365	Physical Properties of Perovskites and their Derivatives
6.	Sanam Saleem	2018-ag-4268	First Principle Study of 3d Transition Metal Doped Barium Based Binary Chalcogenides
7.	Sadia Munawar	2015-ag-1204	Study of Ferromagnetic and Optical Properties of Transition Metal Doped Gallium Based Alloys for Spintronic and Energy Applications
8.	Muhammad Adnan	2016-ag-1760	In course work.. Investigation of Rubidium Based Double Perovskites For Energy Harvesting Applications
9.	Sidra Sarfraz	2018-ag-4254	In course work.
10	Nimra Latif		In course work.

Scholarly Publications in Impact Factor Journals (up to 27-02-2025)

Sr. No.	Authors, Title	Name of Journal with Volume, Page, year, Publisher	Impact Factor
1.	**Muhammad Yaseen**, Ziaofeng Chen, Wei Ren, Yujun Feng, Peng Shi, Ziaoqing Wu, Weiguang Zhu. Effect of annealing temperature on ferroelecrtric electron	Ceramics International 39: S471-S474, https://doi.org/10.1016/j.ceramint.	5.2

	emission of sol-gel PZT films (First Author)	2012.10.116	
2.	**Muhammad Yaseen,** Xiaojie Lou, Ziaofeng Chen, Wei Ren, Yang, Liu, Yujun Feng, Peng Shi, Ziaoqing Wu. Strong electron emission from antiferroelectric PLZT(2/95/5) films (First Author & Corresponding Author)	Applied Physics Letters 104(22):222913-222913-5 https://doi.org/10.1063/1.4881885	4.0
3.	Rasul Bakhsh Behram, M.A. Iqbal, S. M. Alay-e-Abbas, M. Sajjad, **Muhammad Yaseen**, M. Imran Arshad, G. Murtaza. Theoretical investigation of mechanical, optoelectronic and thermoelectric properties of $BiGaO_3$ and $BiInO_3$ compounds.	Materials Science in Semiconductor Processing 41, 297-303, 2016, ELSEVIER. https://doi.org/10.1016/j.mssp.2015.09.010	4.1
4.	Q. Mahmood, S. M. Alay-e-Abbas, Asif Mahmood, **Muhammad Yaseen,** I. Mahmood, and N. A. Noor, Study of Half-Metallic Ferromagnetism in $Be_{0.75}Ti_{0.25}Y$ (Y = S, Se, and Te) Using Ab Initio Calculations: Potential Candidate for Spintronic Devices	Journal of Superconductivity and Novel Magnetism 29:2, 521—530 (2015) https://doi.org/10.1007/s10948-015-3330-0	1.8
5.	Abdul Basit, Saleem Ayaz Khan, G. Murtaza, Asif Mehmood, R. Khenata, S. Bin Omran, **Muhammad Yaseen**, Electronic, optical and thermoelectric properties of $XNMg_3$ (X=P, As, Sb, Bi) compounds	Materials Science in Semiconductor Processing, 43:1 69-74 (March 2016) https://doi.org/10.1016/j.mssp.2015.12.001	4.1
6.	Q. Mahmood, S. M. Alay-e-Abbas, **Muhammad Yaseen**, Asif Mahmood, M. Rashid, N. A. Noor, Theoretical Investigation of Half-metallic Ferromagnetism in $Mg_{0.75}$ $Ti_{0.25}Y$ (Y = S, Se, Te) Alloys by Using DFT-mBJ Studies (Corresponding author)	Journal of Superconductivity and Novel Magnetism, May 2016, Volume 29, Issue 5, pp 1387-1397 https://doi.org/10.1007/s10948-016-3434-1	1.8
7.	Shabir Ali, Wilayat Khan, G. Murtaza, **Muhammad Yaseen**, Shahid M. Ramay, Asif Mahmood, First principles study of magnetic and electronic properties of $A_2BB'O_6$ (A = Ba, Sr) (BB′ = FeRe, MnMo, and MnRe) double perovskites.	Journal of Magnetism and Magnetic Materials, Volume 441, Pages 113-123, 1 November 2017, https://doi.org/10.1016/j.jmmm.2017.05.035	2.7
8.	Hafiz Shahab Arif, G. Murtaza, Hajira Hanif, H. Saad Ali, **Muhammad Yaseen,** N. R. Khalid. Effect of La on structural and photocatalytic activity of SnO 2 nanoparticles under UV irradiation	Journal of Environmental Chemical Engineering 5(4) July 2017. https://doi.org/10.1016/j.jece.2017.07.043	7.7
9.	Mazhar Ullah, G. Murtaza, **Muhammad Yaseen,** Saleem Ayaz Khan, Band structure features, chemical bonding and optical properties of Zn_3X_2 (X = N, P, As) compounds.	Journal of Alloys and Compounds. 728 (2017) 1226-1234, https://doi.org/10.1016/j.jallcom.2017.09.100	6.2
10.	Muhammad Rashid, Zafar Abbas, **Muhammad Yaseen**, Qadeer Afzal, Asif Mahmood, Shahid M. Ramay, Theoretical Investigation of Cubic $BaVO_3$ and $LaVO_3$ Perovskites via Tran–Blaha-Modified Becke–Johnson Exchange Potential Approach.	Journal of Superconductivity and Novel Magnetism (2017) 30:3129-3136, https://doi.org/10.1007/s10948-017-4099-0	1.8
11.	**Muhammad Yaseen**, Wei Ren, Xiaofeng Chen, Yujun Feng, Peng Shi, and Xiaoqing Wu, Effects of thickness, pulse duration and size of strip electrode on ferroelectric electron emission of Lead Zirconate Titanate films. (First Author & Corresponding Author)	Journal of Electronic Materials, Volume 47 No. 2 (2018), DOI: 10.1007/s11664-017-5888-8	2.1
12.	W. Tanveer, Q. Mahmood, M.A. Faridi, **Muhammad**	Journal of Superconductivity and	1.8

	Yaseen, Shahid M. Ramay, Asif Mahmood, Study of Electronic, Mechanical, Magnetic and Optical Properties of $Mg_{0.75}TM_{0.25}S/Se$ (TM=Fe, Co, Ni): A First Principle Approach. (Corresponding Author)	Novel Magnetism (2017) 30:3481-3491 https://doi.org/10.1007/s10948-017-4100-y	
13.	Naveed Yousaf, Wilayat Khan, Shah Haider Khan, **Muhammad Yaseen**, A. Laref, G. Murtaza, Electronic, optical and thermoelectric properties of $SnGa_2GeX_6$ (X =S, Se) compounds.	Journal of Alloys and Compounds 737 (2018) 637-645 https://doi.org/10.1016/j.jallcom.2017.12.033	6.2
14.	Q. Mahmood, M. Hassan, K.C. Bhamu, **Muhammad Yaseen**, S.M. Ramay, A. Mahmood, Density functional theory-based study of the magnetic and optical properties of $PbMO_3$ (M = Cr, Fe) using the modified Becke-Johnson mBJ functional	Journal of Physics and Chemistry of Solids 128 (2019) 275–282, Elsvier. https://doi.org/10.1016/j.jpcs.2017.12.030	4.0
15.	G Murtaza, Naveed Yousaf, **Muhammad Yaseen**, A Laref and Sikander Azam**,** Systematic studies of the structural and optoelectronic characteristics of $CaZn_2X_2$ (X= N, P, As, Sb, Bi).	Materials Research Express, Vol. 5, No. 1 December 2017, https://doi.org/10.1088/2053-1591/aaa1c4	2.3
16.	G. Murtaza, N. Yousaf, A. Laref, **Muhammad Yaseen**. Effect of Varying Pnictogen Elements (Pn=N, P, As, Sb, Bi) on the Optoelectronic Properties of $SrZn_2Pn_2$.	Zeitschrift für Naturforschung A, Vol. 72, No. 4, P 285-293, 2018, doi:10.1515/zna-2017-0388, A Journal of Physical Sciences	1.8
17.	Abdul Ahad Khan, **Muhammad Yaseen**, A. Laref, G. Murtaza, Impact of anion replacement on the optoelectronic and thermoelectric properties of $CaMg_2X_2$, X= (N, P, As, Sb, Bi) compounds	Physica B: Condensed Matter 541:24–31 (2018). https://doi.org/10.1016/j.physb.2018.04.034	2.8
18.	**Muhammad Yaseen**, Q. Mahmood, Shahid M. Ramay, I. Ali, M. Y. Naz, Asif Mahmood, The First-Principle study of electronic structure, ferromagnetic and thermoelectric properties of spinel alloy $FeAl_2O_4$ using mBJ functional approach. (First Author & Corresponding Author)	Journal of Superconductivity and Novel Magnetism. (2018) 31:1435-1441, https://doi.org/10.1007/s10948-017-4337-5	1.8
19.	Qasim Mahmood, **Muhammad Yaseen**, Mahmood ul Hassan, M. Shahid Rashid, IskanderTlili, Ample Laref, The first principle study of mechanical, optoelectronic and thermoelectric properties of $CsGeBr_3$ and $CsSnBr_3$ perovskites.	Materials Research Express, Vol. 6, No. 4, P-045901 https://doi.org/10.1088/2053-1591/aaf997	2.3
20.	Q. Mahmood, Bakhtiar Ul Haq**, Muhammad Yaseen,** Shahid M. Ramay, Muhammad Gul Bahar Ashiq, Asif Mahmood, The first-principle study of mechanical, optical and thermoelectric properties of $SnZrO_3$ and $SnHfO_3$ for renewable energy applications.	Solid State Communications, 292 (2019) 17-23, Elsevier. https://doi.org/10.1016/j.ssc.2019.01.011	2.1
21.	M. Rashid, Ali S. Alghamdi, Q. Mehmood, M Hassan, **Muhammad Yaseen** and A. Laref, Optoelectronic and thermoelectric behavior of XIn_2Te_4 (X= Mg, Zn and Cd) for energy harvesting application; DFT approach	Physica Scripta Vol 94, No. 12 P.125709, https://doi.org/10.1088/1402-4896/ab154f	2.9
22.	Q Mehmood, M. Hassan, **Muhmmad Yaseen,** A. Laref**,** Half-metallic ferromagnetism and optical behavior in alkaline earth metals based Beryllium perovskites: DFT calculations.	Chemical Physics Letters 729 (2019) 11-16 https://doi.org/10.1016/j.cplett.2019.05.011	2.8
23.	Q. Mahmood, **Muhammad Yaseen,** Bakhtiar Ul Haq, A. Laref, Aalia Nazir, The study of mechanical and thermoelectric behavior of $MgXO_3$ (X= Si, Ge, Sn) for energy applications by DFT. (Corresponding Author)	Chemical Physics, 524 (2019) 106-112, Elsvier. https://doi.org/10.1016/j.chemphys.2019.05.009	2.3
24.	Q. Mahmood, M. Rashid, M. Hassan, **Muhammad**	Physica Scripta, Vol. 94 No. 10,	2.9

	Yaseen, A. Laref, Bakhtiar Ul Haq, Engineering of bandgap and optical properties of $In_xGa_{1-x}(As/Sb)$ via across composition alloying for solar cell applications using density functional theory based approaches.	P-105812 https://doi.org/10.1088/1402-4896/ab2548	
25.	Q. Mahmood, Bakhtiar Ul Haq, **Muhammad Yaseen**, Atiba Shahid, A. Laref, Exploring the origin of p-type half-metallic ferromagnetism in beryllium doped alkali based perovskites.	Solid State Communications, 299, (2019) 113654, Elsvier. https://doi.org/10.1016/j.ssc.2019.113654	2.1
26.	Ahmad Waqas, Shamsa Bibi, Shafiq ur Rehman, Sufian Afzal, **Muhammad Yaseen**, Muhammad Shoaib, Ushna Saeed, Wang Da Ming, Substitutional effect of different bridging groups on optical and charge transfer properties of small bipolar molecules for OLEDs	Journal of Physical Organic Chemistry, August Vol. 32, e4000 2019, https://doi.org/10.1002/poc.4000	1.8
27.	**Muhammad Yaseen,** Amna Ashfaq, Anam Akhtar, Rida Asghar, Hina Ambreen, Mehwish Khalid Butt, Saima Noreen, Shafiq Ur Rehman, Shamsa Bibi, Shahid M Ramay, Adil Murtaza, Investigation of $LaAlO_3$ Pervoskite Compound for Optoelectronic and Thermoelectric Devices Under Pressure (First Author & Corresponding Author)	Materials Research Express, 7(1): 015907 https://doi.org/10.1088/2053-1591/ab6110	2.3
28.	Saima Noreen, Ghulam Mustafa, Sobhy M. Ibrahim, Saima Naz, Munawar Iqbal, **Muhammad Yaseen**, Tariq Javed, Jan Nisar. Iron oxide (Fe_2O_3) prepared via green route and adsorption efficiency evaluation for an anionic dye: kinetics, isotherms and thermodynamics studies	Journal of Materials Research and Technology https://doi.org/10.1016/j.jmrt.2020.02.047	6.4
29.	Adil Murtaza, Yebei Li, Jingwen Mi, Wenliang Zuo, Awais Ghani, Zhiyong Dai, Kangkang Yao, Chunxi Hao, **Muhammad Yaseen**, Azhar Saeed, Sen Yang and Xiaoping Song. Spin configuration, magnetic and magnetostrictive properties of $Tb_{0.27}Dy_{0.73-x}Nd_xFe_2$ compounds	Materials Chemistry and Physics 249: 122951 https://doi.org/10.1016/j.matchemphys.2020.122951	4.6
30.	Adil Murtaza, Wenliang Zuo, Jingwen Mi, Yebie Li, Awais Ghani, **Muhammad Yaseen**, Muhammad Tahir, Chunxi Hao, Kaili Li, Zhiyong Dai, Sen Yang and Yang Ren. Magnetocaloric effect and critical exponent analysis around magnetic phase transition in $NdCo_2$ compound	Journal of Physics D: Applied Physics, 53(34: 345003 https://doi.org/10.1088/1361-6463/ab8c7f	3.4
31.	Adil Murtaza, Jingwen Mi, Yebei Li, Chunxi Hao, **Muhammad Yaseen**, Awais Ghani, Azhar Saeed, Wenliang Zuo, Yin Zhang, Chao Zhou, Sen Yang and Xiaoping Song. Magnetocaloric effect in $Tb(Co_{0.94}Fe_{0.06})_2$ alloy with negligible thermal hysteresis and wide working temperature range	Journal of Magnetism and Magnetic Materials, (2020) 502: 166521 https://doi.org/10.1016/j.jmmm.2020.166521	2.7
32.	Mehwish K. Butt, **Muhammad Yaseen**, Abdul Ghaffar, Muhammad Zahid, First Principle Insight into the Structural, Optoelectronic, Half Metallic, and Mechanical Properties of Cubic Perovskite $NdInO_3$ (Corresponding Author)	Arabian Journal for Science and Engineering, (2020) 45: 4967–4974 https://doi.org/10.1007/s13369-020-04576-6	2.9
33.	Farwa Mushtaq, Muhammad Zahid, Asim Mansha, Ijaz Ahmad, Ghulam Mustafa, Saqib Nasir, **Muhammad Yaseen.** $MnFe_2O_4$/coal fly ash nanocomposite: a novel sunlight-active magnetic photocatalyst for dye	International Jorunal of Environmental Science and Technology (2020) 17:4233–4248	3.1

	degradation	https://doi.org/10.1007/s13762-020-02777-y	
34.	Faiza Jilani, Javed Iqbal, Iza Shahid, **Muhammad Yaseen**, Shabir Mehr, Muhammad Khalid, Khurshid Ayub. Rational Design of Naphthalimide Based Small Molecules Non-fullerene Acceptors for Organic Solar Cells	Computational and theoretical Chemistry, (2020) 1187:112916 https://doi.org/10.1016/j.comptc.2020.112916	2.8
35.	Arif Nazir, Fraz Khalid, Shafiq Urrehman, Masood Sarwar, Munawar Iqbal, Muhammad Yaseen, Muhammad Iftikhar Khan, Mazhar Abbas. Structural, electric and dielectric properties of perovskite based nanoparticles for energy applications	Zeitschrift für Physikalische Chemie 235(6): 769-784 (2020) https://doi.org/10.1515/zpch-2019-1558	2.5
36.	Adil Murtaza, Wenliang Zuo, Muhammad Yaseen, Awais Ghani, Azhar Saeed, Chunxi Hao, Jingwen Mi, Yebei Li, Tieyan Chang, Liqun Wang, Chao Zhou, Yu Wang, Yin Zhang, Sen Yang, and Yang Ren, Magnetocaloric effect in the vicinity of the magnetic phase transition in $NdCo_{2-x}Fe_x$ compounds	PHYSICAL REVIEW B 101:214427 (June 2020) https://doi.org/10.1103/PhysRevB.101.214427	3.7
37.	A. Naseer, Abid Ali, S. Ali, A. Mehmood, Heri Kusuma, Arif Nazir, Muhammad Yaseen, M. I. Khan, Abdul Ghaffar, M. Abbas, Munawar Iqbal. Biogenic and eco-benign synthesis of platinum nanoparticles (Pt NPs) using plants aqueous extracts and biological derivatives: Environmental, biological and catalytic applications	Journal of Materials Research and Technology 9(4):9093-9107 https://doi.org/10.1016/j.jmrt.2020.06.013	6.4
38.	Muhammad Yaseen, Hina Ambreen, Javed Iqbal, Ali Shehzad, Roha Zahid, Nessrin Kattan, Shahid M. Ramay, Asif Mehmood. Electronic, optical and magnetic properties of $PrXO_3$ (X = V, Cr): first-principle calculations (First Author & Corresponding Author)	Philosophical Magazine (Aug 2020) 100(24): 3125–3140 https://doi.org/10.1080/14786435.2020.1812748	1.6
39.	Saima Noreen, Safa Ismail, Sobhy M. Ibrahim, Heri S. Kusuma, Arif Nazir, Muhammad Yaseen, Muhammad I. Khan and Munawar Iqbal*. ZnO, CuO and Fe_2O_3green synthesis for the adsorptive removal of direct golden yellow dye adsorption: kinetics, equilibrium andthermodynamics studies	Zeitschrift für Physikalische Chemie (Nov 2020) 235(8): 1055–1075 https://doi.org/10.1515/zpch-2019-1599	2.5
40.	Mehwish K. Butt, **Muhammad Yaseen**, Ijaz A. Bhatti, Javed Iqbal, Misbah, Adil Murtaza, Munawar Iqbal, Murefah mana AL-Anazy, M.H. Alhossainy, A. Laref, A DFT study of structural, magnetic, elastic and optoelectronic properties of lanthanide based $XAlO_3$ (X=Nd, Gd) compounds (Corresponding Author)	Journal of Materials Research and Technology, (2020) 9(6): 16488-16496, https://doi.org/10.1016/j.jmrt.2020.11.055	6.4
41.	Munawar Iqbal, Ghulam A. Shar, Sobhy M. Ibrahim, Sha Itikhar, Muhammad Asif, Muhammad I. Khna Heri S. Kusuma, **Muhammad Yaseen,** Arif Nazir, Synthesis and characterization of heterostructured nanoparticle for efficient photocatalytic performance for dye degradation	Zeitschrift für Physikalische Chemie -1 (Dec 2020) 235(9): 1209-1226 **https://doi.org/10.1515/zpch-2019-1562**	2.5
42.	**Muhammad Yaseen**, Hina Ambreen, Maryam Zia, H. M. Asif Javed, Asif Mahmood, Adil Murtaza, Study of Half metallic Ferromagnetism and Optical properties of Mn doped CdS (First Author & Corresponding Author)	Journal of Superconductivity and Novel Magnetism (Sep 2020) 34:135-141 https://doi.org/10.1007/s10948-020-05674-0	1.8

43.	Rao Aqil Shehzad, Shabbir Muhammad, Javed Iqbal, Abdullah G. Al-Sehemi, **Muhammad Yaseen**, Zouhaier Aloui and Muhammad Khalid. Exploring the optoelectronic and third-order nonlinear optical susceptibility of cross-shaped molecules: insights from molecule to material level	Journal of Molecular Modeling 27, 12 (2021) https://doi.org/10.1007/s00894-020-04619-7	1.8
44.	Shamsa Bibi, Mehwish Khan, Shafiq Urrehman, **Muhammad Yaseen**. Investigation analysis of optoelectronic and structural properties of cis- and trans-structures of azo dyes: density functional theory study	Journal of Physical Organic Chemistry, (2021) 34(6): 4183 https://doi.org/10.1002/poc.4183	2.391
45.	Muhammad Yasin Naz, Shazia Shukrullah, Muhammad Noman, **Muhammad Yaseen**, Muhammad Naeem and S. A. Sulaiman. Effect of Water-Mixed Polyvinyl Alcohol Viscosity on Wear Response of Carbon Steel Exposed to an Eroding Medium.	Journal of Materials Engineering and Performance 30, 2066–2073 (2021) https://doi.org/10.1007/s11665-021-05483-z	2.3
46.	**Muhammad Yaseen**, Mehwish Khalid Butt, Amna Ashfaq, Javed Iqbal, Maha M. Almoneef, Misbah, Munawar Iqbal, Adil Murtaza, A. Laref. Phase transition and thermoelectric properties of cubic $KNbO_3$ under pressure: DFT approach, (First Author & Corresponding Author)	Journal of Materials Research and Technology, 11:2106-2113 (2021) https://doi.org/10.1016/j.jmrt.2021.02.017	6.4
47.	**Muhammad Yaseen**, Hina Ambreen, Remsha Mehmood, Munawar Iqbal, Nessrin A. Kattan, Thamraa Alshahrani, Saima Noreen, A. Laref, Investigation of optical and thermoelectric properties of $PbTiO_3$ under pressure, (First Author & Corresponding Author)	Physica B: Condensed Matter, 615:15, 412857 (2021) https://doi.org/10.1016/j.physb.2021.412857	2.8
48.	Shanza Mubashir, Mehwish Khalid Butt, **Muhammad Yaseen**, Javed Iqbal, Munawar Iqbal, Adil Murtaza, A. Laref, Pressure induced electronic, optical and thermoelectric properties of cubic $BaZrO_3$: A first principle calculations, (Corresponding Author)	Optik, 239, p166694 (2021) https://doi.org/10.1016/j.ijleo.2021.166694	3.1
49.	Mehwish Khalid Butt, **Muhammad Yaseen**, Javed Iqbal, Abeer S. Altowyan, Adil Murtaza, Munawar Iqbal, A. Laref, Structural, Electronic, Half –Metallic Ferromagnetic and Optical Properties of Cubic $MAlO_3$ (M=Ce, Pr) Perovskites: A DFT Study, (Corresponding Author)	Journal of Physics and Chemistry of Solids, 110084 (2021) ISSN 0022-3697 https://doi.org/10.1016/j.jpcs.2021.110084	4.0
50.	**Muhammad Yaseen**, Haris Shafiq, Javed Iqbal, Misbah, Farwa Batool, Adil Murtaza, Munawar Iqbal, Hind Althib, Shahid M. Ramay, Asif Mahmood, Pressure induced electronic, optical and thermoelectric properties of cubic $SrZrO_3$: DFT investigation, (First Author & Corresponding Author)	Physica B: Condensed Matter, Volume 612:412626 (2021) https://doi.org/10.1016/j.physb.2020.412626	2.8
51.	Nimra Nadeem, Muhammad Zahid, Zulfiqar Ahmad Rehan, Muhammad Asif Hanif, **Muhammad Yaseen.** Improved photocatalytic degradation of dye using coal fly ash-based zinc ferrite ($CFA/ZnFe_2O_4$) composite	International Journal of Environmental Science and Technology (2021), 19: 3045–3060 https://doi.org/10.1007/s13762-021-03255-9	3.1
52.	Kiran Qamar Kiyani, Umer Yaqoob, Sobia Jabeen, Saleem Iqbal, **Muhammad Yaseen**, Muhammad	Computational and Theoretical Chemistry 1202(3):113305 (2021)	2.8

	Khalid, Muhammad Saleem Akhtar, Javed Iqbal. Tris-iso-propyl-sily-ethynyl Anthracene Based Small Molecules for Organic Solar Cells with efficient Photovoltaic Parameters	https://doi.org/10.1016/j.comptc.2021.113305	
53.	Maham Rubab, Iajz Ahad, Nimra Nadeem, Syed Ali, Raza Shah, **Muhammad Yaseen**, Muhammad Yasin Naz, Muhammad Zahid. Synthesis and photocatalytic degradation of rhodamine B using ternary Zeolite/WO_3/Fe_3O_4 composite	Nanotechnology 32(34): 345705 (2021) https://doi.org/10.1088/1361-6528/ac037f	3.5
54.	Muhammad Ishaq, Rao Aqil Shehzad, **Muhammad Yaseen**, Saleem Iqbal, Khurshid Ayub, Javed Iqbal. DFT study of superhalogen-doped borophene with enhanced nonlinear optical properties	Journal of Molecular modeling 27(6):188 (May 2021) **https://doi.org/10.1007/s00894-021-04791-4**	2.2
55.	Hina Ambreen, **Muhammad Yaseen**, Abdul Ghaffar, Muhammad Zahid, First principle insight on physical characteristics of Mn doped BeS compound, (Corresponding Author)	Materials Science in Semiconductor Processing, 127:105697 (2021) https://doi.org/10.1016/j.mssp.2021.105697	4.1
56.	Saima Noreen, MarriumTahira, Madiha Ghamkhar, Iram Hafiz, Haq Nawaz Bhatti, Raziya Nadeem, Mian Anjum Murtaza, Muhammad Yaseen, Aftab Ahmad Sheikh, Zubera Naseem and Fazila Younas, Treatment of textile wastewater containing acid dye using novel polymeric graphene oxide nanocomposites (GO/PAN,GO/PPy, GO/PSty)	Journal of Materials Research and Technology, 14:25-35 (2021) https://doi.org/10.1016/j.jmrt.2021.06.007	6.4
57.	Sadia Riaz, Muhammad Yaseen, Mehwish Khalid Butt, Shanza Mubashir, Javed Iqbal, Abeer S. Altowyan, A. Dahshan, Adil Murtaza, Munawar Iqbal and A. Laref, Physical characteristics of $NaTaO_3$Under pressure for electronic devices. (Corresponding Author)	Materials Science in Semiconductor Processing (June 2021) 133:105976 https://doi.org/10.1016/j.mssp.2021.105976	4.1
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59.	Shamsa Bibi, Shafiq Urrehman, Laryeb Khalid, Muhammad Yaseen, Abdul Quyyam Khan, Ran Jia, Metal doped fullerene complexes as promising drug delivery materials against COVID-19	Chemical Papers 75: 6487–6497, August 2021 https://doi.org/10.1007/s11696-021-01815-41-11	2.2
60.	Saba Zahid, Alvina Rasool, Muhammad Ans, **Muhammad Yaseen**, Javed Iqbal. Quantum Chemical Approach of Donor−π−Acceptor Based Arylborane−Arylamine Macrocycles with Outstanding Photovoltaic Properties Toward High-Performance Organic Solar Cells	Energy & Fuels 35(18): 15018–15032 (2021) https://doi.org/10.1021/acs.energyfuels.1c02260	5.3
61.	Rida Fatima, Rao Aqil Shehzad, Alvina Rasool, **Muhammad Yaseen**, Saleem Iqbal, Muhammad Jawwad Saif, Javed Iqbal, Exploring the potential of tetraazaacene derivativesas photovoltaic materials with enhanced Photovoltaic parameters	International Journal of Quantum Chemistry 122(1): 26817 (2021) https://doi.org/10.1002/qua.26817 Accepted: 25 August 2021, e26817	2.2
62.	Hafsa Saeed, Nimra Nadeem, Muhammad Zahid,	Nanotechnology 32(50): 505714	3.5

	Muhammad Yaseen, Saima Noreen, Asim Jilani, Imran Shahid. Mixed metal ferrite ($Mn_{0.6}Zn_{0.4}Fe_2O_4$) intercalated g-C_3N_4 nanocomposite: Efficient sunlight driven photocatalyst for methylene blue degradation	(Oct 2021) https://doi.org/10.1088/1361-6528/ac2847	
63.	Hira Ashiq, Nimra Nadeem, Asim Mansha, Javed Iqbal, Muhammad Yaseen, Muhammad Zahid, Imran Shahid. G-C_3N_4/Ag@$CoWO_4$: A novel sunlight active ternary nanocomposite for potential photocatalytic degradation of rhodamine B dye	Journal of Physics and Chemistry of Solids 161: p-110437 (2022) https://doi.org/10.1016/j.jpcs.2021.110437	4.0
64.	Nimra Nadeem, Muhammad Yaseen, Zulfiqar Ahmad Rehan, Muhammad Zahid, Rana A. Shakoor, Asim Jilani, Javed Iqbal, Shahid Rasul, Imran Shahid. Coal fly ash supported $CoFe_2O_4$ nanocomposites: Synergetic Fenton-like and photocatalytic degradation of methylene blue	Environmental Research 206: 112280 (Oct 2021) https://doi.org/10.1016/j.envres.2021.112280	**8.3**
65.	Adil Murtaza, Wenliang Zuo, Awais Ghani, Muhammad Yaseen, Azhar Saeed, Tieyan Chang, Zhiyong Dai, Chao Zhou, Yin Zhang, Sen Yang, Xiaoping Song, Yang Ren. Magnetostructural transition, magnetocaloric effect and critical exponent analysis in $Nd(Co_{0.8}Fe_{0.2})_2$ alloy	Journal of Alloys and Compounds 895: 162562 (2022) https://doi.org/10.1016/j.jallcom.2021.162562	6.2
66.	Saqib Shafiq. Rao Aqil Shehzad, Muhammad Yaseen, Khurshid Ayub, Ali Raza Ayub, Javed Iqbal, Khaled Mehmood, Zeinhom M. El-Bahy. DFT study of OLi_3 and MgF_3 Doped Boron Nitride with Enhanced Nonlinear Optical Behavior	Journal of Molecular Structure 1251: 131934 (Nov 2021) http://dx.doi.org/10.1016/j.molstruc.2021.131934	3.8
67.	Adil Murtaza, Wen-liang Zuo, Xianghao Song, Awais Ghani, Azhar Saeed, Muhammad Yaseen, Fanghua Tian, Sen Yang. Robust ferromagnetism in rare-earth and transition metal co-doped ZnO nanoparticles for spintronics applications	Materials Letters, 310: 131479 (Dec 2021) http://dx.doi.org/10.1016/j.matlet.2021.131479	3.0
68.	Muhammad Shafique, Shabir Mahr, Muhammad Yaseen, Haq Nawaz Bhatti. CQD/TiO_2 nanocomposite photocatalyst for efficient visible light-driven purification of wastewater containing methyl orange dye	Materials Chemistry and Physics (Dec 2021, 278:125583) http://dx.doi.org/10.1016/j.matchemphys.2021.125583	4.6
69.	Shafiq Urrehman, Makhvela Answer, Shamsa Bibi, Saba Jamil, Muhammad Yaseen, Shanza Khan, Raziya Nadeem, Sarmad Ali, Ran Jia. DFT analysis of different substitutions on optoelectronic properties of carbazole-based small acceptor materials for Organic Photovoltaics	Materials Science in Semiconductor Processing, (Dec 2021, 140:106380) http://dx.doi.org/10.1016/j.mssp.2021.106381	4.1
70.	Mehr-Un-Nisa, Nimar Nadeem, **Muhammad Yaseen,** Javed Iqbal, Muhammad Zahid, Qamar Abbas, Ghulam M. Mustafa, Imran Shahid. Applications of graphene-based tungsten oxide nanocomposites: a review	Journal of Nanostructure in Chemistry 13: 167–196 (2022) http://dx.doi.org/10.1007/s40097-021-00464-z	10.1
71.	Muhammad Imran Khan, Javed Iqbal, Sahar Javaid Akram, Yaser A. El-Badry, **Muhammad Yaseen,** Rasheed Ahmad Khera. End-capped group modification on cyclopentadithiophene based non-fullerene small molecule acceptors for efficient organic solar cells; a DFT approach	Journal of Molecular Graphics and Modeling, 113: 108162 (June 2022) https://doi.org/10.1016/j.jmgm.2022.108162	2.9
72.	Muhammad Zafarullah Kazim, **Muhammad Yaseen,**	Arabian Journal of Science and	2.9

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73.	Muhammad Husnain, Rao Aqil Shehzad, Shabbir Muhammad, Javed Iqbal Abdullah Al-sehemi, Saleh Alarfaji, Khurshid Ayub, **Muhammad Yaseen**. Shedding light on the optical and nonlinear optical properties of superalkali-doped borophene	Journal of Molecular Modeling (Jan 2022, 28: 46) https://doi.org/10.1007/s00894-022-05032-y	2.2
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75.	Umer Younis, Fizzah Qayyum, Imran Muhammad, **Muhammad Yaseen**, Qiang Sun. A Stable Three-Dimensional Porous Carbon as a High-Performance Anode Material for Lithium, Sodium, and Potassium Ion Batteries	Advanced Theory and Simulations, Jul 2022, 5(9), 2200230, https://doi.org/10.1002/adts.202200230	3.3
76.	Adil Murtaza, Azhar Saeed, Awais Ghani, Fazal Kabir, Xianghao Song, **Muhammad Yaseen**, Wen-Liang Zuo, Kaili Li, Qizhong Zhao, Chao Zhou, Sen Yang. Role of divalent Co2+ and trivalent Tb3+ incorporation in ZnO nanocrystals: Structural, optical, photoluminescence properties and enhanced ferromagnetism	Physica B: Condensed Matter, Dec 2022, 646: 414287, https://doi.org/10.1016/j.physb.2022.414287	2.8
77.	Noor Tahir, Muhammad Zahid, Asim Jillani, **Muhammad Yaseen**, Qamar Abbas, Rana Abdul shakoor, Imran shahid. Ternary silver tungstate-MoS2/graphene oxide heterostructure nanocomposite for enhanced photocatalysis under visible light and antibacterial activity	Journal of Phtochemistry and Photobiology A: Chemistry, (March 2023), 436: 114376 https://doi.org/10.1016/j.jphotochem.2022.114376	4.3
78.	Noor Tahir, Muhammad Zahid, Asim Jillani, Suman Tahir, **Muhammad Yaseen**, Qamar Abbas, Rana Abdul Shakoor, Syed Zajif Hussain, Imran Shahid. Impact of alternate Mn doping in ternary nanocomposites on their structural, optical and antimicrobial properties: Comparative analysis of photocatalytic degradation and antibacterial activity.	Journal of Environmental Management Volume 337, 1 July 2023, 117706, https://doi.org/10.1016/j.jenvman.2023.117706	8.7
79.	Adil Murtaza, Xianghao Song, Awais Ghani, Wen-liang Zuo, Fazal Kabir, Azhar Saeed, **Muhammad Yaseen**, Kaili Li, Sen Yang. Intrinsic defects and grain boundaries formulated magnetism and dielectric response in ZnO:(Mn + Tb) nanocrystals.	Materials Letters Volume 343, July 2023, 134364, https://doi.org/10.1016/j.matlet.2023.134364	3.0
80.	Ayesha Amanullah, Ruba Munir, Muhammad Zeeshan Bashir, Muhammad Yasin Naz, Shazia Shukrullah, **Muhammad Yaseen**, Amna Muneer & Saima Noreen. Green ferrites nanoparticles synthesis using Aloe vera and watermelon rinds: their applications as sorbents in the purification of direct golden yellow RL dye wastewater.	International Journal of Environmental Analytical Chemistry (2023) https://doi.org/10.1080/03067319.2023.2215165	2.6
81.	Saima Abid, Ruba Munir, Murtaza Sayed, Raziya Nadeem, Amna Muneer, Muhammad Zahid,	Catalysis Surveys from Asia (2023)	3.0

	Muhammad Yaseen, Umme Habibah Siddiqua & Saima Noreen. Synthesis of Zinc Oxide, Ferric, Cu Nano Particles by Almond Shells, Sugar Cane Bagasse, Eggshells, and Their Application as Catalyst for Dye Reactive Red 195 (RR 195) Removal	https://doi.org/10.1007/s10563-023-09400-3	
82.	Ahmad Farhan, Muhammad Zahid, Noor Tahir, Asim Mansha, **Muhammad Yaseen**, Ghulam Mustafa, Mohammed A. Alamir, Ibrahim M. Alarifi & Imran shahid. Investigation of boron-doped graphene oxide anchored with copper sulphide flowers as visible light active photocatalyst for methylene blue degradation	Scientific Reports volume 13, Article number: 9497 (2023) https://doi.org/10.1038/s41598-023-36486-6	4.996
83.	Maryam Khan, Noor Tahir, Muhammad Zahid, **Muhammad Yaseen**, Asim Jillani, Rana Abdul Shakoor, Qamar Abbas, Imran Shahid. Visible Light Assisted Photocatalytic Degradation of Methylene Blue Using Iodine Doped Fe3O4-GO Composite	Optik 290: 171282 (2023) https://doi.org/10.1016/j.ijleo.2023.171282	3.1
84.	Amina Ashraf, Ruba Munir, Gadah Albasher, Madiha Ghamkhar, Amna Muneer, **Muhammad Yaseen**, Tamsal Murtza, Saima Noreen. Utilization of ZnFe 2 O 4 -Polyaniline (PANI), ZnFe 2 O 4 -Polystyrene (PST), and ZnFe 2 O 4 -Polypyrrole (PPy) nanocomposites for removal of Red X-GRL and Direct Sky Blue dyes from wastewater: Equilibrium, kinetic and thermodynamic studies	Journal of Environmental Science and Health Part A Toxic/Hazardous Substances & Environmental Engineering 58(11):1-21 (2023) https://doi.org/10.1080/10934529.2023.2263323	2.1
85.	Iqra Irshad, Ruba Munir, Gadah Albasher, Amna Muneer, **Muhammad Yaseen**, Muhammad Zahid, Raziya Nadeem, Nazish Jahan, Muhammad Idrees Jilani, Fazila Younas, Saima Noreen. Synthesis of metal doped nano-ferrites Co 0.5 Zn 0.25 M 0.25 Fe 2 O 4 by co-precipitation method and application as adsorbent and photocatalyst for removal of direct orange-108 acid dye: equilibrium, kinetic and thermodynamic studies	Journal of Dispersion Science and Technology (2023) https://doi.org/10.1080/01932691.2023.2269229	2.2
86.	Ahsan Maqsood, Ruba Munir, Gadah Albasher, Murtaza Sayed, Raziya Nadeem, Nazish Jahan, Amna Muneer, **Muhammad Yaseen**, Muhammad Zahid, Fazila Younas, Saima Noreen. Synthesis of hybrid layered double hydroxides (HLDH) and application as adsorbent for removal of direct sky-blue dye	Chemical Engineering Communications (2023) https://doi.org/10.1080/00986445.2023.2276140	2.5
87.	Mudassir Ishfaq, **Muhammad Yaseen**, F.F. Al-Harbi, Mehwish Khalid Butt. Tailoring the magneto-electronic and optical properties of cobalt doped strontium titanate by first-principles calculations (Corresponding Author)	Physica B Condensed Matter 664: 415025 (2023) https://doi.org/10.1016/j.physb.2023.415025	2.8
88.	Mudassir Ishfaq, **Muhammad Yaseen**, Shazia Shukrullah, Saima Noreen. Optoelectronic and thermoelectric transport Phenomena in Sr2LaTaO6 and Sr2LuTaO6 double perovskites (Corresponding Author)	Materials Chemistry and Physics 128728 (2023) https://doi.org/10.1016/j.matchemphys.2023.128728	4.6
89.	Adil Murtaza, Xianghao Song, Awais Ghani, Fazal Kabir, Azhar Saeed, Wen-Liang Zuo, **Muhammad Yaseen**, Kaili Li, Chao Zhou, Yin Zhang, Sen Yang. Ferromagnetism and dielectric properties in Zn0.95−xNdxTM0.05O (TM=Co, Fe) nanocrystals:	Ceramics International 49(11), Part A: 16524-16535 (2023) https://doi.org/10.1016/j.ceramint.2023.01.231	5.2

	Collective role of grain boundaries and oxygen vacancies		
90.	Noreen Akhtar, Nimra Nadeem, **Muhammad Yaseen**, Asim Jillani, Asif Mahmood, Usman Zubair, Rizwan Haider, Xianxia Yuan, Muhammad Zahid, Solar light-driven photocatalytic degradation potential of g-C3N4 based binary chalcogenides (AgBiS2/g-C3N4)	Materials Chemistry and Physics, 2024, 129067, ISSN 0254-0584, https://doi.org/10.1016/j.matchemphys.2024.129067.	4.6
91.	Muhammad Zafarullah Kazim, Naveed Raza, Shatha A. Aldaghfag, A. Dahshan, Khalil Ahmad, Muhammad Yasar, Mudassir Ishfaq, **Muhammad Yaseen**, Lead-free Cs2InAsX6 (X = Cl, Br) halide double perovskites: A DFT perspective on their potential for sustainable energy applications	Journal of Physics and Chemistry of Solids, 2024, 111954, ISSN 0022-3697, https://doi.org/10.1016/j.jpcs.2024.111954.	4
92.	Fatima, R., Iqbal, J., Bibi, S. and **Yaseen, M**. (2024), Exploring Acceptor Modification in Helicene-Phenylamine-Based Small Molecules for Organic and Perovskite Solar Cells.	Energy Technol., 12: 2301019. https://doi.org/10.1002/ente.202301019	3.8

Book Chapters

Sr. No	Authors, Titles	Chapters, Books	Doi
1.	Yasir Javed, M. Irfan Hussain, **Muhammad Yaseen**, Hamza Ali Asif, Gold-Iron Oxide nanohybrids: Characterization and Biomedical Applications	Hybrid nocomposites - Fundamentals, Synthesis, and Applications, Print ISBN: 9789814800341 Jenny Stanford Publishing, Published March 11, 2019	DOI: 10.1201/9780429000966-7

Research work published in International conferences

Sr. No	Authors, Titles	Conference/Workshop	Date and Venue
1	**Muhammad Yaseen,** Umair Shahid, Investigation of Perovskite materials for solar cell applications: an easy approach	International Conference on Green Energy Technologies: Opportunities and Challenges	In Pakistan (29-30 October, 2019)
2	Umer Younis, Umair Shahid, Hina Ambreen, **Muhammad Yaseen,** Abdul Ghaffar. Electronic and Optical Properties of Co doped CdS By Density Functional Theory (DFT) Applications.	3rd International Conference on Materials Science and Nanotechnology (MSNANO 19)	In Pakistan (18-20 February 2019)
3	**Muhammad Yaseen**, Sania Zahid, Hina Ambreen, Anam, Umair Shahid. Synthesis and Characterization of $BaTiO_3$ Nanoparticles for capacitor Applications.	3rd International Conference on Materials Science and Nanotechnology (MSNANO 19)	In Pakistan (18-20 February 2019)
4	**Muhammad Yaseen**, Rabia Noha, Umair Shahid. Investigation of Ni Doped $PbTiO_3$ Nanoparticles for Memory Devices Applications	3rd International Conference on Materials Science and Nanotechnology (MSNANO 19)	In Pakistan (18-20 February 2019)
5	Ayesha Munir, Amna Shoukat, Umair Shahid, **Muhammad Yaseen.** Electronic and Optical Properties of $BiFeO_3$ By First Principle	3rd International Conference on Materials Science and Nanotechnology (MSNANO	In Pakistan (18-20 February 2019)

	Method.	19)	
6	Saima Noreen, Mudassar Maqsood, Haq Nawaz Bhatti and **Muhammad Yaseen**. Degradation of Dye Using Molybdates and Their Sulfonated Graphene Oxide Nanocomposite	1st International Conference on Surface Science.	In Pakistan (25,26 April 2019)
7	Saima Noreen, Sabeen Saher, Haq Nawaz Bhatti and **Muhammad Yaseen**. Eradication of AAR-5 Dye from Polluted Water Using MUS-ZnO-PANI and MUS-ZnO-PPy Composites.	1st International Conference on Surface Science.	In Pakistan (25-26 April 2019)
8	S. Akbar, **M. Yaseen,** Misbah, U. Shahid, A.Kiran, R. Mehmood, A. Ghaffar. Lead Free Ferroelectric Composite For Capacitor Applications	International Symposium on Technologies and Materials For Renewable Energy, Environmental and Sustainability	In Pakistan (6-7 February, 2019)
9	S. Akbar, **M. Yaseen,** Misbah, U. Shahid, H. Ambreen, R. Mehmood, A. Ghaffar. Electronic, Optical and Magnetic Properties of $PrMnO_3$ by First Principle.	International Symposium on Technologies and Materials For Renewable Energy, Environmental and Sustainability	In Pakistan (6-7 February, 2019)
10	**Muhammad Yaseen**, Numan Abbas, Misbah, Umair Shahid, Mehwish Khalid Butt, Hina Ambreen, Wei Ren. Investigation of $SrFeO_3$ Compound for Thermoelectric Applications by Density Functional Theory Method	Joint ISAF-ICE-EMF-IWPM-PFM Conferencr-2019 f2cπ2	In Switzerland (14-19 July 2019)
11	**Muhammad Yaseen**, Amna Tabsum, Misbah, Umair Shahid, Mehwish /khalid Butt, Hina Ambreen, Wei Ren.Electronic, Optical, Magnetic and Thermoelectric Properties of Pervoskite $PrFeO_3$ Compound by Ab-Initio Method	Joint ISAF-ICE-EMF-IWPM-PFM Conferencr-2019 f2cπ2	In Switzerland (14-19 July 2019)
12	**Muhammad Yaseen**, Muhammad Dilawar, Hina Ambreen, Umair Shahid, Mehwish Khalid Butt, Abdul Ghaffar, Wei Ren. Electronic, Optical and Magnetic Properties of Low Concentration Ni doped CdSe By First Principle Method.	Canadian Association of Physicists (CAP 2019)	In Canada (2-7 June 2019)
13	Tehreem Naik, **Muhammad Yaseen**, Ahmed Azam* and Fasiha Qayyum, Preparation, Characterization and Application of $Zn_{1-x}Fe_xO$ to Kill C.Coli in Water	3rd Conference on Frontiers of Nanoscience and Nanotechnology	October 25-27, 2016
14	Adil Raza, Ahmed Azam, Muhammad Shahzad Saeed, Muhammad Ahsan and **Muhammad Yaseen**, Hydrothermal Synthesis and Characterization of $Co_{0.5}$ Zn $_{0.5}Fe_2O_4$ Nanoparticles and Evaluation of its Photo Catalytic Activity under Visible Light Irradiation	3rd Conference on Frontiers of Nanoscience and Nanotechnology	October 25-27, 2016
15	Ahmed Azam, Fasiha Qayyum, **Muhammad Yaseen**, Tehreem Naik and Shazaib Mukhtar, Structural and Optical Properties of N-Doped ZnS Nanoparticles Prepared by Coprecipatation Method	3rd Conference on Frontiers of Nanoscience and Nanotechnology	October 25-27, 2016

16	Shaziab Mukhtar, **Muhammad Yaseen**, Ahmed Azam, Fasiha Qayyum and Tehreem Naik, Synthesis and Characterization of Iron Doped ZnS Nanoparticles using Chemical Precipitation Route	3rd Conference on Frontiers of Nanoscience and Nanotechnology	October 25-27, 2016
17	Saira Saeed, **M.Yaseen,** Asima Rashid, Synthesis and Characterization of CuO nanoparticles and its applications in solar cells.	International Workshop on Sustainable Energy Solutions For Community Development In Pakistan	November 08-09, 2016
18	M. Irfan Hussain, Rabia Arshad, Yasir Javed, Yasir Jamil, **M. Yaseen** , Effect of doping on the structural and optical properties of Zinc Oxide for energy applications.	International Workshop on Sustainable Energy Solutions for Community Development in Pakistan	November 08-09, 2016
19	Maryam Zia, Tehreem Naik, **M. Yaseen**, Theoretical investigation of electronic and optical properties of Mn dopped CdS.	International Workshop on Sustainable Energy Solutions for Community Development in Pakistan	November 08-09, 2016
20	**M. Yaseen**, Q. Mahmood, Half – metallic ferromagnetism in $Mg_{0.75}Ti_{0.25}$ X(X=S,Se,Te) Alloys by an Ab-initio method.	International Workshop on Sustaibale Energy Solution for Community Development in Pakistan	November 08-09, 2016
21	Saira Saeed, **Muhammad Yaseen**, Ahmad Azam and Asima Rashid, Synthesis and Characterization of CuO nanoparticles by precipitation.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
22	Sadaf Rasheed, **Muhammad Yaseen** and Shahida Majeed, Synthesis and Characterization of Chromium doped Zinc Sulphide Nanoparticles.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
23	Shahida Majeed, **Muhammad Yaseen** and Sadaf Rasheed, Synthesis and Characterization of Chromium Doped Cadmium Sulphide Nanoparticles.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
24	Sunbal Mahboob, **Muhammad Yaseen** and Asia Fardoos, Synthesis and Characterization of Cobalt Doped Cadmium Sulphide.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
25	Asia Fardoos, **Muhammad Yaseen** and Sunbal Mahboob, Synthesis and Characterization of Zn1−xNixS (x = 0.01, 0.02, 0.07 and 0.08) Nanoparticles.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
26	Bareera Zahid and **Muhammad Yaseen,** Synthesis and Characterization of Ni Doped ZnO Nanoparticles.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
27	Shahzaib Mukhtar, **Muhammad Yaseen** and Ahmed Azam, Synthesis and Characterization of Iron Doped ZnS Nanoparticles.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
28	Tehreem Kareem Naik, **Muhammad Yaseen**, Ahmed Azam and Yasir Javed, Synthesis and Characterization of Fe Doped Zinc Oxide Nanoparticles and Their Antimicrobial Effects on C. Coli Bacteria.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016

29	Iqra Rasul and **Muhammad Yaseen,** Solution Derived Co-doped CdS and Characteristics.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
30	Asima Rashid, **Muhammad Yaseen** and Saira Saeed, Electronic and Optical Properties of Ni doped ZnTe by First Principle Calculations.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
31	Sania Zahid and **Muhammad Yaseen,** The Synthesis and Characterization of Barium Titanate by Sol Gel Method.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
32	Fasiha Qayyum, **Muhammad Yaseen** and Ahmad Azam, Structural and Optical Properties of Ni-Doped ZnS Nanoparticles Prepared by Coprecipitation Method.	International Conference on Advanced Materials and Emerging Technologies ICAMET 2016	November 28-29, 2016
33	**M. Yaseen**, Y. Jamil, H. Anwar, M. Raza Ahmad, PLZT anti-ferroelectric thin films for photovoltaic applications.	International Workshop on Renewable Energy Technologies for Community Development in Pakistan	November 04-06, 2015
34	Memona Naz, Yasir Jamil, Hafeez Anwar, M. Zakariya, **M. Yaseen**, Composition and yeild based comparative study of solar and conventional distillation systems for eucalyptus camaldulensis essential oils.	International Workshop on Renewable Energy Technologies for Community Development in Pakistan	November 04-06, 2015
35	Umair Yasin , Zaghum Tanveer , Adnan Mustafa, Hafeez Anwar, Yasir Jamil, M. Raza Ahmad and **M. Yaseen**, Synthesis and characterization of iron oxide-titanium dioxide composites for dye-sensitized solar cells .	International Workshop on Renewable Energy Technologies for Community Development in Pakistan	November 04-06, 2015
36	Javed Iqbal, Gulzar ahmad, H. M. Umair Arshad, Hafeez Anwar, Yasir Jamil and **M. Yaseen**, Deposition of nano-TiO_2 thin films using spin coating technique for solar cell applications.	International Workshop on Renewable Energy Technologies for Community Development in Pakistan	November 04-06, 2015
37	**M. Yaseen**, X. J. Lou, Y. Jamil, H. Anwar, Zia ul Haq, A. Younus, M. Kashif. Sol-gel derived anti-ferroelectric PLZT (2/95/5) films for photovoltaic applications.	International Workshop on Renewable Energy Technologies in Pakistan.	16-18 December, 2014
38	Iqra Younus, Yasir Jamil, Hafeez Anwar, Zia ul Haq, **Muhammad Yaseen**, Muhammad Raza Ahmad. Synthesis and characterization of zinc oxide for solar cells applications.	International Workshop on Renewable Energy Technologies in Pakistan	16-18 December, 2014

D. Research and Development Grant Funding

Sr. No.	Project Title	P.I/ Co P.I	Total Amount of Grant	Funding Agency	Present Status
1.	Experimental and theoratical investigation of ferroelectricity in pervoskite based hetrostructures or superlattices	P.I	2580108/- Rs.	Higher Education Commission, Pakistan	In Progress

2.	Investigation of Advanced Energy Nanomaterials to Improve the Performance of Dye-Sensitized Solar Cells	Co-P.I	4,95000/- Rs.	Higher Education Commission, Pakistan	In Progress
3.	Double pervoskite based multiferroic materials for solar cell applications	P.I	3000000/- Rs.	USAID-NUST	Completed
4.	Synthesis, characterizations and applications of Nanomaterials to inhibit the growth of bacteria	P.I	384000/- Rs.	Endowment Fund Secretariat, UAF	Completed
5.	Ferroelectric and Antiferroelectric thin films for flat panel display and solar cell applications	P.I	4,27,800/- Rs.	Higher Education Commission, Pakistan	Completed

Submitted Projects

Sr. No.	Project Title	P.I/ Co P.I	Total Amount of Grant	Funding Agency	Present Status
1.	Running Structure and Enhancing Pyroelectric Properties of Rare Earth Element doped Lead Free Ferroelectric Materials	P.I	5500000/- Rs.	Pakistan Scientific Foundation	Submitted

E. Conferences, Advisory, Administrative and Community Services

Oral Presentation in Foreign Conferences

Sr. No	Title	Role	International/ Local	Place	Date
1.	Joint ISAF-ICE-EMF-IWPM-PFM Conference-2019 f2cπ2	Oral Presentation	International	Lausanne, Switzerland.	July 14-19, 2019
2.	Canadian Association of Physicists (CAP 2019)	Oral Presentation	International	Simon Fraser University in Burnaby, British Columbia, Canada	June 2-7, 2019
3.	Joint ISAF-FMA-AMF-AMEC-PFM Conference - 2018	Oral Presentation	International	Hiroshima, Japan.	May 27-June 1, 2018
4.	The 8th Asian Meeting on Electroceramics (AMEC-8)	Oral Presentation	International	Penang, Malaysia	1 July to 5 July, 2012

Invited Speaker in Conferences/Workshops/Seminars

Sr. No	Title	Role	Internationa l/Local	Venue	Date
5.	International Conference	Invited	International	Department of Physics,	(4-5

	on Advances in Experimental and Theoretical Physics	Speaker		University of Agriculture, Faisalabad	March 2020)

Organized Conferences/Workshops/Seminars

Sr. No	Title	Role	International/Local	Venue	Date
6.	International Conference on Advances in Experimental and Theoretical Physics	Organizer	International	Department of Physics, University of Agriculture, Faisalabad	(4-5 March 2020)
7.	One day Nano-Tech Meeting on Wastewater Treatment	Organizer	Local	Department of Physics, UAF.	May 3, 2019
8.	Recent Developments in Space Exploration	Organizer	Local	Department of Physics, UAF.	January 1, 2019
9.	International Symposium of New Frontiers of Physics	Organizer	International	Department of Physics, UAF.	October 19, 2018
10.	New Horizons and Recent Advancements in Physics	Participant	Local	University of Agriculture Faisalabad	24 April, 2015

Participations in Conferences/Workshops/Seminars

Sr. No	Title	Role	International/ Local	Venue	Date
11.	4th International Conference on Materials Science and Nanotechnology (MSNANO 20)	Participant	International	Department of Physics, Government College University, Faisalabad.	In Pakistan (3-5 March 2020)
12.	4th International Conference on Materials Science and Nanotechnology (MSNANO 20)	Participant	1st International Hands on Training/Workshop	Department of Physics, Government College University, Faisalabad.	In Pakistan (3-5 March 2020)
13.	International Conference on Green Energy Technologies: Opportunities and Challenges (GET)	Oral Presentation	International	CAS Auditorium and Video Conference Room (DLC-II) UAF.	October 29-30, 2019
14.	1st International Conference on Surface Science	Participant	International	Institute of soil and Environmental Sciences, UAF.	April 25-26, 2019
15.	3rd International Conference on Materials Science and Nanotechnology (MSNANO 19)	Participant	International	Department of Physics, Government College University, Faisalabad.	In Pakistan (18-20 February 2019)
16.	International Symposium on Technologies and	Participant	International	Department of Chemistry, UAF.	February 6-7, 2019

	Materials For Renewable Energy, Environmental and Sustainability				
17.	Nanomaterials: New Trends in Development and Applications	Participant	International	Department of Chemistry and Department of Pharmacy, Forman Christian College, Lahore.	January 29-31, 2019
18.	2nd International Conference on Material Science and Nanotechnology 2018 (MSNANO-18)	Participant	International	Department of Physics, Government College University Faisalabad.	February 19-20, 2018.
19.	Statistical Methods for Researchers using R	Participant	Local	The department of Mathematics &Statistics, University of Agriculture Faisalabad	August 09-11, 2017
20.	Solar System Installation and Applications	Participant	Local	Department of Physics, University of Agriculture Faisalabad	February 24-25, 2017
21.	International Conference on Materials Science and Nanotechnology (MSNANO17)	Participant	International	Department of Physics, Government College University Faisalabad	February 18-19, 2017
22.	Technical and Patent Writing	Participant	Local	Department of Chemistry, University of Agriculture Faisalabad	January 28, 2017
23.	International Workshop on Sustainable Energy Solutions for Community Development in Pakistan	Participant	International	Organized by University of Agriculture , Faisalabad-Pakistan & University of Kassel-Germany	November 08-09,2016
24.	Symposium on Emerging Trends in Applied Physics	Participant	Local	Department of Physics, University of Agriculture Faisalabad	December 3,2016
25.	NOOR 2nd International Symposium on 'Applied Materials and Nanodevice	Participant	International	NILORE, Islamabad, Pakistan	November 14-16, 2015
26.	Nanotechnology: Recent Trends and Future Prospects	Participant	Local	University of Agriculture Faisalabad	23 April, 2016
27.	International Workshop on Renewable Energy	Participant	International	University of Agriculture	November 04-06, 2015

	Technologies For Community Development in Pakistan			Faisalabad	
28.	International Workshop on Renewable Energy Technologies in Pakistan	Participant	International	University of Agriculture Faisalabad	December 16-18, 2014

Advisory, Administrative and Community Services

Sr. No	Experience	Universities/Organization
1	Office (Main) and superintendent Tariq Hall	Hall Warden Officer (Main) From 03-08-2021 to 14-07-2022 Superintendent Tariq Hall from 15-07-2022 to till date
2	Projects Evaluator **(10 Projects) Worth of Rupees 200 Million**	Higher Education Commission, Pakistan
3.	Member of vigilance committee	Faculty of Sciences, University of Agriculture Faisalabad (upto 20 Oct, 2019)
4.	Co-Tutor of T.G. (Lalak Jan Shaheed-I)	Main Campus, UAF
5.	Physics Subject expert for appointment of teachers	UAF Community College PARS
6.	Performed duty of Attestation of Documents	Main Campus, UAF
7.	Member of Board of Examiner for PhD students	Department of Physics, University of Agriculture Faisalabad.
8.	Subject expertfor faculty recruitment	Government College Women University Faisalabad.
9.	Arranged short course for Lab Attendant	Department of Physics, University of Agriculture Faisalabad.
10.	Performed duty at “Hall Management”	5th Lyallpur Art & Literature Festival-2017
11.	External Examiner	Hazara University, Mansehra, KPK, Pakistan.
12.	Arranged for DICE-2015 Mega Entrepreneurship Event	University of Agriculture Faisalabad.
13.	Reviewer of Conference Papers (non-Impact Factor).	Symposium on Energy Systems 2019 University of Agriculture, Faisalabad.
14.	Evaluation of Research Work (External Examiner) M. Phil. Thesis	Government College University, Faisalabad.
15	External Examiner for M. Phil. Thesis	Department of Physics, University of Sargodha, Sargodha.
16.	HEC approved supervisor	University of Agriculture Faisalabad.
17.	Member of Nanotechnology group	University of Agriculture Faisalabad.
18.	Member of departmental board of studies	Department of Physics, University of Agriculture Faisalabad.
19.	Member Curriculum Committee	Department of Physics, University of Agriculture Faisalabad

Journal Reviewer

Applied Physics, A Catalysis letter, Rhizosphere, Chinese Physics b, Journal of Physics and Chemistry of Solid, Chemical Physics Letters **,** Solar Energy, Materials Science in Semiconductor Processing, Physica status solidi b, Computational Condensed matter, Energy Research, Canadian Journal of Physics, Optical and Quantum Electronics, Journal of Applied Physics

Experience Before Joining On TTS

Sr. No	Experience	Universities	Duration
1.	**Post Doctorate**	Xi'an Jiaotong University, China	1 October, 2013 to 31 July, 2014
2.	**Assistant Professor (IPFP)**	COMSATS University Islamabad (Lahore Campus)	04 August, 2014 to 30 September, 2014