

“I am passionate about getting results and thrive on science challenges, irrespective of how large or small”

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Current Address:

Dr.Mir Waqas Alam
Asst. Prof,Dept of Physics,
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Dil-Dar, Karnah
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Personal Details:

DOB: 17th Dec- 1986

Nationality: Indian

Marital Status: Single

Professional Memberships

Scholarships:

March -2013 to Sept 2013

Japanese Govt.

(Monbukagakusho)

Scholarships

March-2011 to March 2012

Toyama International

Exchange Scholarship

Jan 2011-Present:

Member of Japanese

Society of Applied Physics.

Dr. Mir Waqas Alam

Associate Professor, Dept of Physics, College of Science,
King Faisal University, Al-Hofuf, Saudi Arabia

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Professional Overview:

Assistant Professor: September 2015 to September 2022

Associate Professor: September 2022 to present

Department of Physics, College of Science,
King Faisal University, Al-Hofuf,

Saudi Arabia

Postdoctoral Fellow: July-2014 to July-2015

National Institute for Material Science, Tsukuba, Ibaraki,

Japan

Research Scholar: Nov-2013 to June-2014

Westren Kentucky University, Bowling Green, Kentucky,

USA

Academic Credentials:

Doctor of Engineering (Ph.D): Sept-2010 to Sept-2013

Nano and functional Material Science, University of Toyama ,

Japan

Master of Science (M.Sc Physics): May-2008 to May -2010

Department of Physics, Fergusson College, University of Pune,

India

Bachelor of Science: Jan-2005 to June-2008

University of Kashmir, Srinagar, Jammu & Kashmir,

India

Research Expertise/Interests:

Fabrication and Characterization of Organic Devices like Organic Thin Films transistors, Organic Solar cells, OLED and Gas sensors. Synthesis, Characterization and application of Nanoparticles, Nanomaterials Fabrication of devices based on Two Dimensional Nanomaterials (MoS₂, WS₂, Graphen, etc)

MANA Post Doctoral Project :

Fabrication and characterization of optically functional OFET with diarylethene (DAE) photochromic channel layers for optical sensor and memory devices:

National Institute for Material Science, **Japan**

Research Scholar Project :

High-Performance Organic Solar Cell Based on P3HT/PDIB Organic Blend Using Spray Brush Techniques: Western Kentucky University, **USA**

Ph.D. Thesis:

High-Performance Organic Thin Film Transistors with Special Oxide Contact Structures Evaluation and of Device Physics: University of Toyama, **Japan**

M.Sc. Thesis:

Synthesis and Characterization of Cu-SnO₂ Nanoparticles and their H₂S Gas Sensing Properties: National Chemical Lab (NCL), Pune, **India**

Teaching Activity in KFU:

Master Courses:

1. Physics self-Learning (M-0814-1561)
2. Solid State Physics :
3. Master thesis
4. Thin film fabrication and characterizations. Thermal evaporator, Sputtering

Undergraduate Courses:

1. General Physics 1 (Eng. 0814-140)
2. General Physics-II (Eng. 0814-141)
3. General Physics (CS 0814-132)
4. General Physics Lab I (0814-144)
5. General Physics II Lab (0814-145)
6. General Physics (CS 0824-101)
7. Optics
8. General Physics 3 824-203
8. Solid State Physics 814-1511

Member of following Committee

Head Quality Assurance Committee (SSRP, APR, KPI)

Member of Scientific research Committee

Member of Graduation Projects and Gifted Students Committee

Member of Course Design and specifications preparation.

Master Students Supervision:

Principal Supervision: 2 Students. Co- Supervision: 1 Student.

Completed:

1. Title: Preparation and characterization of Copper Oxide thin films by magnetron sputtering. (Zahra Ahmed A.Alsaleh) **PI**
2. Title: Fabrication and Characterization of Tungsten Oxide Thin Film on Titanium Surface by Magnetron Sputtering: (Nouf Almuhaish) **PI**
3. Fabrication and Characterization of Titanium Oxide Thin Film by Magnetron Sputtering (Kholoud alzhvani) **Co-PI**

List of Funded Projects

S.NO	Project No	PI/Co-Pi	Year	Status
1	DSR Annual Project 160063	Co-PI	2016	Completed
2	NASHER 186080	Co-Pi	2018	Completed
3	DSR Annual Project 180102	PI	2018	Completed
4	DSR Annual Project 180103	PI	2018	Completed
5	NASHER 186124	Pi	2019	Completed
6	NASHER 17122002	Pi	2019	Completed
7	NASHER 186108	Pi	2019	Completed
8	IFT20053	Pi	2020	Completed
9	NASHER 1811014	Pi	2020	Completed
10	NASHER 1811014	C-Pi	2020	Completed
11	NASHER 1811014	PI	2020	Completed
12	NASHER 186310	Co-PI	2020	Completed
13	NASHER 186361	PI	2020	Completed
14	NASHER 206100	PI	2021	Completed

15	NASHER 216041	PI	2021	Completed
16	NASHER 216040	Co-PI	2021	Completed
17	NASHER 206099	Co-PI	2021	Completed
18	KFUPM DF191020.	Co-PI	2021	Completed
19	Research Group 1811014	Co-PI	2021	Completed
20	DSR Annual Project 130153	Co-PI	2021	Completed
21	DSR Annual Project 180120	PI	2021	Completed
22	Annual Project AN00046	PI	2022	Under Process
23	Annual Project AN00054	PI	2022	Under Process
24	Annual Project GRANT314	PI	2022	Under Process

List of Publications:

S.NO	Title	IF (Q)
List of Publication in 2022		
1	Mohamad M Ahmad, Hicham Mahfoz Kotb, Shehla Mushtaq, Mir Waheed-Ur-Rehman: Christopher M. Maghang and Mir Waqas Alam : Green Synthesis of Mn + Cu Bimetallic Nanoparticles Using Vinca rosea Extract and Their Antioxidant, Antibacterial, and Catalytic Activities: Crystals: 2022: 12(1), 72 ; https://doi.org/10.3390/cryst12010072	2.5/Q2
2	Mir Waqas Alam , VG Dileep Kumar, CR Ravikumar, SC Prashantha, HC Ananda Murthy, MR Anil Kumar: Chromium (III) doped polycrystalline MgAl ₂ O ₄ nanoparticles for photocatalytic and supercapacitor applications." Journal of Physics and Chemistry of Solids 2022:161, 110491 . https://doi.org/10.1016/j.jpics.2021.110491	3.9/Q2
3	Mir Waqas Alam : Ansari, M.Z., Aamir, M., Waheed-Ur-Rehman, M., Parveen, N. and Ansari, S.A., 2022. Preparation and Characterization of Cu and Al Doped ZnO Thin Films for Solar Cell Applications. Crystals, 12(2), p.128 . https://doi.org/10.3390/cryst12020128	2.5/Q2
4	Ph. Nonglen Meitei, Borish Moirangthem, Chitralekha Ngangbam, Mir Waqas Alam & Naorem Khelchand Singh: Investigation on structural and photodetection properties of Gd ₂ O ₃ thin films after annealing: J Mater Sci: Mater Electron (2022) 33, pages10705–10714. https://doi.org/10.1007/s10854-022-08053-8	2.4
5	Mohd Farhan,Asim Rizvi, Aamir Ahmad, Mohammad Aatif , Mir Waqas Alam and Sheikh Mumtaz Hadi: Structure of Some Green Tea Catechins and the Availability of Intracellular Copper Influence Their Ability to Cause Selective Oxidative DNA Damage in Malignant Cells: Biomedicines 2022, 10(3), 664 ; https://doi.org/10.3390/biomedicines10030664	6.0/Q2
6	K. M. Mamatha, V. Srinivasa Murthy, C. R. Ravikumar, H. C. Ananda Murthy, Mir Waqas Alam , K. Vinutha & A. A. Jahagirdar: Lanthanum oxide nanoparticles as chemical sensor for direct detection of carboxymethyl cellulose in eye drops: Inorganic and Nano-Metal Chemistry: (2022) https://doi.org/10.1080/24701556.2022.2055575	1.7/Q3
7	Souayah, Basma, Suvanjan Bhattacharyya, Najib Hdhiri, Mir Waqas Alam , Essam Yasin, and Muhammad Aamir. "Investigation on inlet obstruction in transitional flow regime: Heat transfer augmentation and pressure drop analysis." Case Studies in Thermal Engineering 34 (2022): 102016 . http://dx.doi.org/10.1016/j.csite.2022.102016	4.7/Q1

8	Mir Waqas Alam , Hassan S. Al Qahtani, Muhammad Aamir, Alaaedeen Abuzir, Muhammad Shuaib Khan, Maryam Albuhulayqah, Shehla Mushtaq, Noushi Zaidi, and Ambikapathi Ramya. "Phyto Synthesis of Manganese-Doped Zinc Nanoparticles Using Carica papaya Leaves: Structural Properties and Its Evaluation for Catalytic, Antibacterial and Antioxidant Activities." <i>Polymers</i> 14, no. 9 (2022): 1827. http://dx.doi.org/10.3390/polym14091827	4.3/Q1
9	Souayah, Basma, Katta Ramesh, Najib Hdhiri, Essam Yasin, Mir Waqas Alam , Kawthar Alfares, and Amina Yasin. "Heat Transfer Attributes of Gold–Silver–Blood Hybrid Nanomaterial Flow in an EMHD Peristaltic Channel with Activation Energy." <i>Nanomaterials</i> 12, no. 10 (2022): 1615. http://dx.doi.org/10.1007/s10854-022-08053-8	5.0/Q1
10	Mir Waqas Alam , Amal BaQais, Mohammed M. Rahman, Muhammad Aamir, Alaaedeen Abuzir, Shehla Mushtaq, Muhammad Nasir Amin, and Muhammad Shuaib Khan. "Investigation on In Situ Carbon-Coated ZnFe ₂ O ₄ as Advanced Anode Material for Li-Ion Batteries." <i>Gels</i> 8, no. 5 (2022): 305. http://dx.doi.org/10.3390/gels8050305	4.7/Q1
11	Mir Waqas Alam , Islam Bhat, S.; Al Qahtani, H.S.; Aamir, M.; Amin, M.N.; Farhan, M.; Aldabal, S.; Khan, M.S.; Jeelani, I.; Nawaz, A.; Souayah, B. Recent Progress, Challenges, and Trends in Polymer-Based Sensors: A Review. <i>Polymers</i> 2022, 14, 2164. https://doi.org/10.3390/polym14112164	4.3/Q1
12	Mir Waqas Alam , Pooja P, Aamir M, Souayah B, Mushtaq S, Khan MS, Amin MN, Khan K, Shajahan S. The Recent Development in Chemoresistive-Based Heterostructure Gas Sensor Technology, Their Future Opportunities and Challenges: A Review. <i>Membranes</i> . 2022; 12(6):555. https://doi.org/10.3390/membranes12060555	4.1/Q1
13	Mir Waqas Alam , Hassan S. Al Qahtani, Basma Souayah, Waqar Ahmed, Hind Albalawi, Mohd Farhan, Alaaedeen Abuzir, and Sumaira Naeem. 2022. "Novel Copper-Zinc-Manganese Ternary Metal Oxide Nanocomposite as Heterogeneous Catalyst for Glucose Sensor and Antibacterial Activity" <i>Antioxidants</i> 11, no. 6: 1064. https://doi.org/10.3390/antiox11061064	6.3/Q1
14	Mir Waqas Alam . Hassan S. Al Qahtani, Hind Albalawi, Muhammad Aamir, Muhammad Bilal, Tanveer Ahmad Mir, Basma Souayah, and Noushi Zaidi. 2022. "Enhanced Electrodes for Supercapacitor Applications Prepared by Hydrothermal-Assisted Nano Sheet-Shaped MgCo ₂ O ₄ @ZnS" <i>Crystals</i> 12, no. 6: 822. https://doi.org/10.3390/cryst12060822	2.6/Q2
15	Souayah, Basma, Zulqurnain Sabir, Muhammad Umar, and Mir Waqas Alam . 2022. "Supervised Neural Network Procedures for the Novel Fractional Food Supply Model" <i>Fractal and Fractional</i> 6, no. 6: 333. https://doi.org/10.3390/fractalfract6060333	3.7/Q1
16	Mir Waqas Alam ., Najeeb, J., Naeem, S., Usman, S.M., Nahvi, I., Alismail, F., Abuzir, A., Farhan, M. and Nawaz, A., 2022. Electrochemical Methodologies for Investigating the Antioxidant Potential of Plant and Fruit Extracts: A Review. <i>Antioxidants</i> , 11(6), p.1205. https://doi.org/10.3390/antiox11061205	7.6/Q1
17	Souayah, Basma, Kashif Ali Abro, Ambreen Siyal, Najib Hdhiri, Faycal Hammami, Muayad Al-Shaeli, Nisrin Alnaim, S. Raju, Mir Waqas Alam , and Tarfa Alsheddi. "Role of copper and alumina for heat transfer in hybrid nanofluid by using Fourier sine transform." <i>Scientific Reports</i> 12, no. 1 (2022): 1-11. https://www.nature.com/articles/s41598-022-14936-x	4.9/Q1
18	Jayachitra, J., J. Richards Joshua, A. Balamurugan, N. Sivakumar, V. Sharmila, S. Shanavas, Mohammad Abu Haija, Mir Waqas Alam , and Amal BaQais. "High electrode performance of	5.5/Q1

	hydrothermally developed activated C coated O ₃ -NaFeO ₂ electrode for Na-ion batteries applications." <i>Ceramics International</i> (2022). https://doi.org/10.1016/j.ceramint.2022.07.110	
19	Devi, Ngasepam Monica, Amal BaQais, Anil Krishna Debnath, Mir Waqas Alam , and Naorem Khelchand Singh. "Improved photodetection capabilities of Ag@ CeO ₂ Nanorod composite array using GLAD technique." <i>Ceramics International</i> 48, no. 20 (2022): 30107-30117. https://doi.org/10.1016/j.ceramint.2022.06.282	5.5/Q1
20	Mir Waqas Alam , Hamida Azam, Nadeem R. Khalid, Sumaira Naeem, Muhammad Khalid Hussain, Amal BaQais, Mohd Farhan, Basma Souayeh, Noushi Zaidi, and Kaffayatullah Khan. "Enhanced Photocatalytic Performance of Ag ₃ PO ₄ /Mn-ZnO Nanocomposite for the Degradation of Tetracycline Hydrochloride." <i>Crystals</i> 12, no. 8 (2022): 1156. https://doi.org/10.3390/cryst12081156	2.7/Q2
21	Souayeh, Basma, Suvanjan Bhattacharyya, Najib Hdhiri, Fayçal Hammami, Essam Yasin, S. Suresh Kumar Raju, Mir Waqas Alam , Tarfa Alsheddi, and Muneerah Al Nuwairan. "Effect of Magnetic Baffles and Magnetic Nanofluid on Thermo-Hydraulic Characteristics of Dimple Mini Channel for Thermal Energy Applications." <i>Sustainability</i> 14, no. 16 (2022): 10419. https://doi.org/10.3390/su141610419	3.8/Q2
22	Khan, Kaffayatullah, Mudassir Iqbal, Fazal E. Jalal, Muhammad Nasir Amin, Mir Waqas Alam , and Abidhan Bardhan. "Hybrid ANN models for durability of GFRP rebars in alkaline concrete environment using three swarm-based optimization algorithms." <i>Construction and Building Materials</i> (2022): 128862. https://doi.org/10.1016/j.conbuildmat.2022.128862	7.6/Q1
23	Aldughaylibi, Fatimah Saeed, Muhammad Asam Raza, Sumaira Naeem, Humera Rafi, Mir Waqas Alam , Basma Souayeh, Mohd Farhan, Muhammad Aamir, Noushi Zaidi, and Tanveer Ahmad Mir. 2022. "Extraction of Bioactive Compounds for Antioxidant, Antimicrobial, and Antidiabetic Applications" <i>Molecules</i> 27, no. 18: 5935. https://doi.org/10.3390/molecules27185935	4.9/Q2
24	Amin, Muhammad Nasir, Kaffayatullah Khan, Muhammad Faisal Javed, Dina Yehia Zakaria Ewais, Muhammad Ghulam Qadir, Muhammad Iftikhar Faraz, Mir Waqas Alam , Anas Abdulalim Alabdullah, and Muhammad Imran. 2022. "Forecasting Compressive Strength of RHA Based Concrete Using Multi-Expression Programming" <i>Materials</i> 15, no. 11: 3808. https://doi.org/10.3390/ma15113808	3.7/Q1
List of Publication in 2021		
1	Basma Souayeh, Essam Yasin, Mir Waqas Alam and Syed Ghazanfar Hussain: Numerical Simulation of Magnetic Dipole Flow Over a Stretching Sheet in the Presence of Non-Uniform Heat Source/Sink: <i>Front. Energy Res.</i> , 2021, 14 https://doi.org/10.3389/fenrg.2021.767751	4.0/Q2
2	Mir Waqas Alam , Muhammad Aamir, Mohd Farhan, Maryam Albulhulayqah, Mohamad M Ahmad, CR Ravikumar, VG Dileep Kumar, HC Ananda Murthy: Green Synthesis of Ni-Cu-Zn Based Nanosized Metal Oxides for Photocatalytic and Sensor Applications." <i>Crystals</i> 11.12	2.5/Q2

	(2021): 1467: http://dx.doi.org/10.3390/cryst11121467	
3	Ahmad, Mohamad M., Shehla Mushtaq, Hassan S. Al Qahtani, A. Sedky, and Mir Waqas Alam . "Investigation of TiO ₂ Nanoparticles Synthesized by Sol-Gel Method for Effectual Photodegradation, Oxidation and Reduction Reaction." Crystals (2021):11 1456. http://dx.doi.org/10.3390/cryst11121456	2.5/Q2
4	Basma Souayeh, Muhammad Aamir, Mir Waqas Alam , Huda Alfannakh, Muhammad Shuaib Khan: Combined effects of velocity ratio and radii sizes of internal cylinder on the flow instability in a two-sided lid-driven cubical cavity." International Journal of Modern Physics C (2021): 2250043. http://dx.doi.org/10.1142/S0129183122500437	1.8/Q3
5	Mir Waqas Alam , Mohd Farhan, Basma Souayeh, Muhammad Aamir and Muhammad Shuaib Khan "Synthesis, Crystal Structure, Density Functional Theory (DFT) Calculations and Molecular Orbital Calculations of 4-bromoanilinium perchlorate single crystal" Crystals 2021, 11, 1070. https://doi.org/10.3390/cryst11091070	2.5/Q2
6	Mir Waqas Alam : Electrochemical sensing of dextrose and Photocatalytic activities by nickel ferrite nanoparticles synthesized by probe sonication method: Current Nanoscience , 2021, 17, 893-903 http://dx.doi.org/10.2174/1573413717666210816100826	1.8/Q3
7	Mir Waqas Alam ., Syed G. Hussain, Basma Souayeh, Muhammad S. Khan, and Mohd Farhan. (2021). "Numerical Simulation of Homogeneous–Heterogeneous Reactions through a Hybrid Nanofluid Flowing over a Rotating Disc for Solar Heating Applications" Sustainability (2021) 13, no. 15: 8289. https://doi.org/10.3390/su13158289	3.2/Q2
8	C. Ngangbam, R. Rajkumari, L. Thoibileima, Mir Waqas Alam and N. K. Singh, "High Responsivity of GLAD Synthesized Isotype WO ₃ /In ₂ O ₃ Nanocluster: IEEE Photonics Technology Letters , (2021) 33, 17, 943 https://doi.org/10.1109/LPT.2021.3096647	2.4/Q2
9	Mir Waqas Alam and Souayeh, B., 2021. Parametric CFD Thermal Performance Analysis of Full, Medium, Half and Short Length Dimple Solar Air Tube. Sustainability , (2021) 13(11), 6462. http://dx.doi.org/10.3390/su13116462	3.2/Q2
10	Pratap Kumar C, Prashantha SC, Kumar VD, Santosh MS, Ravikumar CR, Anilkumar MR, Shashidhara TS, Swamy CN, Jahagirdar AA, Mir Waqas Alam , Chen Z. Structural, photo catalytic and electrochemical studies on facile combustion synthesized low-cost nano Chromium (III) doped polycrystalline magnesium aluminate spinels. Journal of Science: Advanced Materials and Devices . 2021 ,6, 462-471,. http://dx.doi.org/10.1016/j.jsamd.2021.05.009	5.4/Q2
11	Murthy, H.A., Zeleke, T.D., Tan, K.B., Ghotekar, S., Mir Waqas Alam , Balachandran, R., Chan, K.Y., Sanaula, P.F., Kumar, M.A. and Ravikumar, C.R., 2021. Enhanced Multifunctionality of CuO Nanoparticles Synthesized Using Aqueous Leaf Extract of Vernonia amygdalina Plant. Results in Chemistry , (2021) 11,100141. https://doi.org/10.1016/j.rechem.2021.100141	Scopus
12	Drmosh, Q. A., N. A. Al-Muhaish, Yousif Ahmed Al Wajih, Mir Waqas Alam , and Z. H. Yamani. "Surface Composite and Morphology Tuning of Tungsten Oxide Thin Films for Acetone Gas Sensing." Chemical Physics Letters 2021, 776,138659, https://doi.org/10.1016/j.cplett.2021.138659	2.02/Q3
13	Basma Souayeh, Suvanjan Bhattacharyya, Najib Hdhiri, and Mir Waqas Alam . "Heat and	2.5/Q2

	Fluid Flow Analysis and ANN-Based Prediction of a Novel Spring Corrugated Tape." Sustainability 13, no. 6 (2021): 3023. https://doi.org/10.3390/su13063023	
14	Meitei, Ph Nonglen, Mir Waqas Alam , Chitrlekha Ngangbam, and Naorem Khelchand Singh. "Enhanced UV photodetection characteristics of annealed Gd ₂ O ₃ nanorods." Applied Nanoscience (2021): 11, 1437. http://dx.doi.org/10.1007/s13204-021-01787-7	2.8/ Q3
15	M.R. Anil Kumar, C.R. Ravikumar, H.C. Ananda Murthy, Mir Waqas Alam , H.P. Nagaswarupa, B.R. Mohan, M.S. Santosh, M. Rudresh, A. Murugan, Satish Babu Boppana: Fabrication of Carbonized Flakes Epoxy Electrode using Lemon Rind for Supercapacitor Applications: Case Studies in Chemical and Environmental Engineering , 2021,100090: https://doi.org/10.1016/j.cscee.2021.100090	Scopus
16	Souayeh, Basma, Fayçal Hammami, Najib Hdhiri, Mir Waqas Alam , Essam Yasin, and Alaaedeen Abuzir. "Simulation of natural convective heat transfer and entropy generation of nanoparticles around two spheres in horizontal arrangement." Alexandria Engineering Journal 60, no. 2 (2021): 2583-2605: https://doi.org/10.1016/j.aej.2021.01.002	3.6/ Q1
List of Publication in 2020		
1	Avinash, B., Ravikumar, C.R., Kumar, M.A., Santosh, M.S., Pratapkumar, C., Nagaswarupa, H.P., Murthy, H.A., Deshmukh, V.V., Bhatt, A.S., Jahagirdar, A.A. and Mir Waqas Alam , NiO bio-composite materials: Photocatalytic, electrochemical and supercapacitor applications. Applied Surface Science Advances 3 (2020): 100049. https://doi.org/10.1016/j.apsadv.2020.100049	Scopus
2	Mir Waqas Alam , Pratibha Pandey, Fahad Khan, Basma Souayeh and Mohd Farhan: Study to Investigate the Potential of Combined Extract of Leaves and Seeds of Moringa oleifera in Groundwater Purification: Int. J. Environ. Res. Public Health 2020, 17, 7468 https://doi.org/10.3390/ijerph17207468	2.8/Q1
3	Mir Waqas Alam , Alaaedeen Abuzir, Basma Souayeh, Essam Yasin, Najib Hdhiri and Fayçal Hammami:Theoretical analysis of carbon nanotubes (SWCNT/MWCNT) over a Wang's stretching sheet under C-C heat flux: Physica Scripta (2020) 95 105207. https://doi.org/10.1088/1402-4896/abb563	1.9/Q2
4	Basma Souayeh, Mir-Waqas Alam , Fayçal Hammami, Najib Hdhiri and Essam Yasin: Predicting the unsteady states of 2D and 3D lid-driven cavities induced by a centrally located circle and sphere: Fluid Dyn. Res. 2020, 52, 025507 https://doi.org/10.1088/1873-7005/ab7bcf	0.6/Q4
5	Mir Waqas Alam , Suvanjan Bhattacharyya, Basma Souayeh, Kunal Dey, Faicel Hammami, Mohammad Rahimi-Gorji, Ranjib Biswas: CPU heat sink cooling by triangular shape micro-pin-fin: Numerical study. International Communications in Heat and Mass Transfer 02/2020; 112:104455 https://doi.org/10.1016/j.icheatmasstransfer.2019.104455	3.9/Q1
6	Basma Souayeh, Najib Hdhiri, Mir Waqas Alam , Fayçal Hammami, Huda Alfannakh: Convective Heat Transfer and Entropy Generation Around a Sphere Within Cuboidal Enclosure. Journal of Thermophysics and Heat Transfer 02/2020; , https://doi.org/10.2514/1.T5960	1.3/Q4
7	Mir Waqas Alam , Tentu Nageswara Rao, Yarasani Prashanth, Vadde Sridhar, Adil Alshoabi, Basma	1.8/Q3

	Souayah, Hatem Abuhimd, Faheem Ahmed: Application of Silica Nanoparticles in the Determination of Herbicides in Environmental Water Samples Using Liquid Chromatography Mass Spectroscopy. Current Nanoscience 01/2020; 16., https://doi.org/10.2174/1573413716666191224113231	
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List of Publication in 2019

1	Mir Waqas Alam : Current progress in electrode/pentacene interfaces of pentacene-based organic thin films transistors: A review. <i>Materials Express</i> 12/2019; 9(7):691., DOI: https://doi.org/10.1166/mex.2019.1574 (Single Author Review Article)	1.6/Q3
2	Mir Waqas Alam , Farooq Ahmad Dar, Fida Mohmed, Abdullah Aljaafari, Osama Saber: Augmentation of ferromagnetism in CuO–Al ₂ O ₃ nanocomposite synthesized via solution combustion method. <i>Materials Express</i> 09/2019; 9(6):653-659., DOI: https://doi.org/10.1166/mex.2019.1549	1.6/Q3
3	Abdullah Aljaafari, Nazish Parveen, Faheem Ahmad, Mir Waqas Alam , Sajid Ali Ansari: Self-assembled Cube-like Copper Oxide Derived from a Metal-Organic Framework as a High-Performance Electrochemical Supercapacitive Electrode Material. <i>Scientific Reports</i> (2019) 9:9140., DOI: https://doi.org/10.1038/s41598-019-45557-6	3.9/Q1
4	Mir Waqas Alam , Basma Souayah, SK Firoz Islam: Enhancement of thermoelectric performance of a nanoribbon made of α -T ₃ lattice. <i>Journal of Physics Condensed Matter J. Phys.: Condens. Matter</i> 31 (2019) 485303 (9pp)., DOI: https://doi.org/10.1088/1361-648X/ab3bf6	2.7/Q2

Before 2019

1. **Mir Waqas Alam**, Zhaokui Wang, Shigeki Naka, Hiroyuki Okada: Temperature Dependence of Barrier Height and Performance Enhancement of Pentacene Based Organic Thin Film Transistor with Bi-Layer MoO₃/Au Electrodes. *Current Nanoscience* 05/2013; 9(3):407., DOI:10.2174/1573413711309030019
2. **Mir Waqas Alam**, Zhaokui Wang, Shigeki Naka, Hiroyuki Okada: Performance Enhancement of Top-Contact Pentacene-Based Organi Thin-Film Transistors with Bilayer WO₃/Au Electrodes. *Japanese Journal of Applied Physics* 03/2013; 52(3):03BB08., DOI:10.7567/JJAP.52.03BB08
3. **Mir Waqas Alam**, Zhaokui Wang, Shigeki Naka, Hiroyuki Okada: Mobility enhancement of top contact pentacene based organic thin film transistor with bi-layer GeO/Au electrodes. *Applied Physics Letters* 02/2013; 102(6):061105., DOI:10.1063/1.4792235
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10. Ahsanulhaq Qurashi, Zhonghai Zhong, **Mir Wakas Alam**: Synthesis and photocatalytic properties of α -Fe₂O₃ nanoellipsoids. *Solid State Sciences* 05/2010; 12(8):1516-1519., DOI:10.1016/j.solidstatesciences.2010.05.001
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International and National Conferences:

- 1) **M. W. Alam**, R. Hayakawa, K. Higashiguchi, K. Matsuda, T. Chikyow, and Y. Wakayama: Organic thin film transistors based on photochromic channel layers: MANA International Symposium 2015: PS-10: 11 th March, 2015: Convention Hall 300, EPOCHAL TSUKUBA Japan.
- 2) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Optimization of Back Exposure Conditions for Self-Aligned Organic Thin-Film Transistors: The 12th European Conference on Molecular Electronics, P215, Sept 6th-2013, **London, UK**.
- 3) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Different Back-exposure Condition for Self-alignment Organic Thin-Film Transistor: Japan society of Applied physics (JSAP). The 60th JSAP Spring Meeting 28p, PA8-3. March 28th - 2013. **Kanagawa, Japan**.
- 4) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Improved Performance Of Top Contact Pentacene Based Organic Thin Film Transistor With bilayer Metal Oxide/Au

Electrodes: The 73rd JSAP Autumn Meeting 2012: 13p, PB2-1, September 13th 2012, **Ehime ken, Japan.**

- 5) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Bi-layer GeO₂/Au Electrodes For Top Contact Pentacene Based Organic Thin Film Transistor: The 12th International Conference on Flexible and Printed Electronics (ICFPE-12) S-13, P3, September 7th 2012, Hongo Campus of the University of **Tokyo, Tokyo Japan.**
- 6) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Improved performance of Top Contact Organic Thin film Transistors With bilayer WO₃/Au Electrodes: The 19th International Workshop on Active-Matrix Flatpanel Displays and Devices. (AM-FPD) P-28, IEEE Proceeding, P- 187, July 5th, **Kyoto, Japan.**
- 7) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Top Contact Pentacene Based Thin Film Transistor with Bi-layer TiO₂/Au Electrodes: The 29th International conference of Photopolymer Science and Technology (ICPST) June 29th – 2012, **Tokyo Japan.**
- 8) Z. Wang, **M. W. Alam**, S. Naka and H. Okada: (JSAP). Pentacene thin-film transistors with a thin oxide semiconductor-doped pentacene layer: The 59th JSAP Spring Meeting 15p-GP11-10, March 15th, 2012, Waseda **University, Tokyo, Japan**
- 9) **M. W. Alam**, Z. Wang, S. Naka and H. Okada: Top Contact Pentacene Based Organic Thin Film Transistor with Bi-layer Metal Oxide/Au Electrodes: Japan Society of Applied physics (JSAP). The 59th JSAP Spring Meeting 15p-GP11-14, March 15th, 2012, **Waseda University, Tokyo, Japan.**
- 10) M. W. Alam, Z. Wang, S. Naka and H. Okada: Pentacene Based Thin Film Transistor with Bi-layer MoO₃/Au Electrode: 18th International Display Workshops 2011 (IDW'11) OLEDp-2 December 8th 2011, Nagoya, Japan.

Participation in Academic Workshops:

- 2) **Certificate of Completion: Communication in the 21st Century Workplace** an online non-credit course authorized by University of California, Irvine and offered through Coursera **by LinkedIn Learning on 1st -September 2020.**
- 3) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled "**Integrating Research into the Curriculum**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **17-August-2020.**
- 4) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled "**From Lab to Market**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **16-August-2020.**
- 5) **Certificate of Completion:** Online Workshop 'Project Management Foundations' on **23-May-2020 by LinkedIn Learning.**
- 6) **Certificate of Completion:** Online Workshop 'Entitled Mastering Microsoft Excel - Essential Training for all Online courses on **18-May-2020 by Udemy.**

- 7) **Certificate of Attendance:** Workshop ‘Entitled Using Blackboard (general)’ Held at the dome hall King Faisal University on **11-March-2020**.
- 8) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled " **21st Century Skills - What University Instructors can do to Prepare Tomorrow's Workforce**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **26-August-2019**.
- 9) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled " **Teaching and Learning in the Modern Era**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **25-August-2019**.
- 10) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled " **Flipping the classroom: Maximizing in-class practice and opportunities for collaborative learning**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **22-August-2019**.
- 11) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled " **High Impact Pedagogy in Higher Education**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **21-August-2019**.
- 12) **Certificate of Attendance:** Workshop ‘Entitled International Collaboration for Research & Development’ Held On **25-September-2018** at College of Science Main hall King Faisal University, KSA.
- 13) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled "**Developing the Entrepreneurial Mindset of Students**" organized by the Deanship of Development and Quality Assurance held at King Faisal University on **05-August-2018**.
- 14) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled " **Faculty Member as Leader - Manager: Essential Leadership and Management Skills** " organized by the Deanship of Development and Quality Assurance held at King Faisal University on **02-August-2018**.
- 15) **Certificate of Attendance:** Enrichment program for faculty member’s workshop entitled “**Managing Active Classrooms**” organized by the Deanship of Development and Quality Assurance held at King Faisal University on **01-August-2018**.
- 16) **Certificate of Attendance:** Enrichment program for faculty members workshop entitled "**Teaching Methods Based on Modern Educational Technologies** " organized by the Deanship of Development and Quality Assurance held at King Faisal University on **30-July-2018**.

International Book Chapter

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