

Ahmad Nawaz Khan

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School of Chemical & Materials Engineering

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About

Dr. Ahmad Nawaz Khan is working as Assistant Professor in the School of Chemical & Materials Engineering. Dr. Ahmad Nawaz Khan has a PhD in Polymer Nanocomposites. Dr. Ahmad Nawaz Khan has published 22 research articles & conference papers having a citation count of 763, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Polymer Nanocomposites National Taiwan University of Science and Technology , Taiwan	2006 - 2009
MS in Polymer Technology	2003 - 2005
BSc in Metallurgy And Materials Engineering UET Lahore , Pakistan	1998 - 2002

Experience

Assistant Professor School of Chemical & Materials Engineering	2023- Present
Assistant Professor School of Chemical & Materials Engineering	2017 - 2010
Assistant Professor School of Chemical & Materials Engineering	2013 - 2023
Assistant Professor School of Chemical & Materials Engineering	2010 - 2013
	- Present

Awards

Best Researcher Award

Professional Memberships

PEC

Research Projects

National Projects Synthesis and characterization of electromagnetic absorbing properties of M type hexa-nanoferrites composite with conducting materials Funding Agency: HEC Amount: PKR 9,830,000.00 Status: Completed	2017
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International Projects

Research Articles

Structure – properties relationships of graphene and spinel nickel ferrites based poly(vinylidene fluoride) hybrid polymer nanocomposites for improved dielectric and EMI shielding characteristics

2022

Ibrar Ahmad Ahmad Nawaz Khan Rahim Jan Iftikhar Hussain Gul

Materials Research Bulletin, Volume 148, Article Number 111687

Impact Factor: 5.4 | **Quartile:** 2 | **Citations:** 27

DOI: 10.1016/j.materresbull.2021.111687

Enhanced Mechanical Properties of Functionalized BN nanosheets-Polymer Composites

2020

M. Umer Farooq Rahim Jan Muhammad Azeem M. Adeel Umer Usman Liaqat Muhammad Aftab Akram Ahmad Nawaz Khan Imtiaz Ahmad Sajjad A. Khan Zeshan A. Umar

Journal of Polymer Research, Volume 27, Article Number 310

Impact Factor: 3.097 | **Quartile:** 2 | **Citations:** 18

DOI: 10.1007/s10965-020-02286-z

Graphene-ferrites interaction for enhanced EMI shielding effectiveness of hybrid polymer composites

2020

Sofia Javed Ibrar Ahmed Rahim Jan Ahmad Nawaz Khan Iftikhar Hussain Gul Ramsha Khan Muhammad Aftab Akram Ahmad Shafqat Hammad Mahmood Cheema Imtiaz Ahmad

Materials Research Express, Volume 7, Number 1, Article Number 016304

Impact Factor: 1.620 | **Quartile:** 4 | **Citations:** 34

DOI: 10.1088/2053-1591/ab62ed

Strengthening of β polymorph in PVDF/FLG and PVDF/GO nanocomposites

2019

Atif Islam Ahmad Nawaz Khan M Fayzan Shakir Kashif Islam

Materials Research Express, Article Number 015017, Pages 1-10

Impact Factor: 1.929 | **Quartile:** 3 | **Citations:** 51

DOI: <https://doi.org/10.1088/2053-1591/ab5f82>

EMI shielding properties of polymer blends with inclusion of graphene nano platelets

2019

Sofia Javed Muhammad Aftab Akram Hammad M. Cheema Muhammad Fayzan Shakir Ahmad Nawaz Khan Ramsha Khan Asra Tariq Muhammad Azeem Adeel Riaz Imtiaz Ahmad Rahim Jan Ahmed Shafqat

Results in Physics, Volume 14, Article Number 102365

Impact Factor: 4.019 | **Quartile:** 1 | **Citations:** 93

DOI: 10.1016/j.rinp.2019.102365

PS/PANI/MoS₂ Hybrid Polymer Composites with High Dielectric Behavior and Electrical Conductivity for EMI Shielding Effectiveness

2019

Abdul Saboor Saad Mahmood Khalid Rahim Jan Ahmad Nawaz Khan Tanveer Zia Muhammad Umer Farooq Shaista Afridi Muhammad Sadiq Muhammad Arif

Materials, Volume: 12, Issue: 17, Article Number: 2690

Impact Factor: 3.057 | **Quartile:** 2 | **Citations:** 30

DOI: 10.3390/ma12172690

Mechanical, dielectric and EMI shielding response of styrene acrylonitrile, styrene acrylonitrile/polyaniline polymer blends, upon incorporation of few layer graphene at low filler loadings

2018

Abdul Saboor Ahmad Nawaz Khan Rahim Jan Saqib Sharif Munawar Khan

Journal of Polymer Research, Vol.25, Article Number 248

Impact Factor: 1.530 | **Quartile:** 3 | **Citations:** 20

DOI: 10.1007/s10965-018-1648-6

Preparation and Investigation of Ag Nanoparticles/TOPAS Nanocomposie Films for Packaging Applications

2018

Hareem Zainab Zakir Hussain Ahmad Nawaz Khan Usman Liaqat Muhammad Bilal Khan Niazi Tahir Ahmed Baig

Current Nanoscience, Volume 14, Issue 6, Pages 538-544

Impact Factor: 1.586 | **Quartile:** 3 | **Citations:** 1

DOI: 10.2174/1573413714666180717114523

Experimental and theoretical correlation of reinforcement trends in acrylonitrile butadiene styrene/single-walled carbon nanotubes hybrid composites

2018

Ahmad Nawaz Khan Qaiser Waheed Rahim Jan KHURRAM YAQOOB Zulfiqar Ali Iftikhar Hussain Gul

POLYMER COMPOSITES, Volume: 39 Pages: E902-E908 Supplement: 2 Special Issue: SI

Impact Factor: 2.268 | **Quartile:** 2 | **Citations:** 11

DOI: 10.1002/pc.24321

Fabrication and characterization of cellulose acetate/hydroxyapatite composite membranes for the solute separations in Hemodialysis <i>Arshad Hussain Aneela Hayder Ahmad Nawaz Khan Hizba Waheed</i> <i>Polymer Bulletin</i> , Volume 75, Pages 1197–1210 Impact Factor: 1.858 Quartile: 2 Citations: 15 DOI: https://doi.org/10.1007/s00289-017-2084-1	2018
Synthesis and characterization of electrodeposited NiO thin film on electrode grade carbon plate for supercapacitor applications <i>Zakir Hussain Ahmad Nawaz Khan KHURRAM YAQOOB Imran Sohail</i> <i>Materials Research Express</i> , Volume: 4 Issue: 11 Article Number: 116412 Impact Factor: 1.151 Quartile: 4 Citations: 17 DOI: 10.1088/2053-1591/aa997a	2017
Evaluating Mechanical Properties of Few Layers MoS₂ Nanosheets-Polymer Composites <i>Rahim Jan Amir Habib Muhammad Bilal Khan Ahmad Nawaz Khan</i> <i>Advances in Materials Science and Engineering</i> , Volume 2017, Article ID 3176808, pages:06 Impact Factor: 1.372 Quartile: 3 Citations: 15 DOI: DOI:10.1155/2017/3176808	2017
Estimating EMI shielding effectiveness of graphene-polymer composites at elevated temperatures <i>Rahim Jan Ahmad Nawaz Khan Imtiaz Ahmad Abdul Saboor</i> <i>Materials Research Express</i> , Volume 4, Number 8, Article No. 085605 Impact Factor: 1.151 Quartile: 4 Citations: 26 DOI: 10.1088/2053-1591/aa81e9	2017
Enhanced mechanical properties and biocompatibility of novel hydroxyapatite/TOPAS hybrid composite for bone tissue engineering applications <i>Qurat-ul-Ain Ahmad Nawaz Khan Mahboubah Nabavinia Muhammad Mujahid</i> <i>Materials Science and Engineering C</i> , 0928-4931, Volume 75, Pages 807-815 Impact Factor: 5.080 Quartile: 1 Citations: 21 DOI: 10.1016/j.msec.2017.02.117	2017
Effect of Polymerization of Aniline on Thermal Stability, Electrical Conductivity and Band Gap of Graphene Oxide/Polyaniline Nanocomposites <i>Zakir Hussain Asim Riaz Adil Usman Muhammad Faheem Ahmad Nawaz Khan Shahid Soomro</i> <i>International Journal of Electrochemical Science</i> , Volume 12, Issue 3, Pages 1785-1796 Impact Factor: 1.369 Quartile: 4 Citations: 15 DOI: 10.20964/2017.03.20	2017
Enhancing dielectric and mechanical behaviors of hybrid polymer nanocomposites based on polystyrene, polyaniline and carbon nanotubes coated with polyaniline <i>Tanveer ul Haq Zia Ahmad Nawaz Khan Majid Hussain Ibrar Hassan Ittikhar Hussain Gul</i> <i>Chinese Journal of Polymer Science</i> , Volume 34, Issue 12, Pages 1500-1509 Impact Factor: 1.692 Quartile: 2 Citations: 25 DOI: doi:10.1007/s10118-016-1867-4	2016
Enhanced mechanical, thermal and antimicrobial properties of poly(vinyl alcohol)/graphene oxide/starch/silver nanocomposites films <i>Adil Usman Zakir Hussain Asim Riaz Ahmad Nawaz Khan</i> <i>Carbohydrate Polymers</i> , Volume 153, Pages 592-599 Impact Factor: 4.811 Quartile: 1 Citations: 193 DOI: 10.1016/j.carbpol.2016.08.026	2016
Effect of polyaniline on the dielectric and EMI shielding behaviors of styrene acrylonitrile <i>KHURRAM YAQOOB Abdul Saboor Hammad M. Cheema Ahmed Shafqat Ahmad Nawaz Khan</i> <i>Journal of Materials Science: Materials in Electronics</i> , Volume 27, Pages:9634-9641 Impact Factor: 2.019 Quartile: 2 Citations: 33 DOI: 10.1007/s10854-016-5021-4	2016
Uniaxial Drawing of Graphene-PVA Nanocomposites: Improvement in Mechanical Characteristics via Strain-Induced Exfoliation of Graphene <i>Rahim Jan Amir Habib Muhammad Aftab Akram Tanveer-ul-Haq Zia Ahmad Nawaz Khan</i> <i>Nanoscale Research Letters</i> , Volume 11, Article Number: 377	2016

Impact Factor: 2.833 | **Quartile:** 2 | **Citations:** 35
DOI: 10.1186/s11671-016-1595-2

Investigating the reinforcement effect of few layer graphene and multi-walled carbon nanotubes in acrylonitrile-butadiene-styrene

2016

Qaiser Waheed Ahmad Nawaz Khan Rahim Jan
Polymer, Volume 97, Pages 496-503

Impact Factor: 3.684 | **Quartile:** 1 | **Citations:** 44
DOI: 10.1016/j.polymer.2016.05.070

Low resistivity ZnO-GO electron transport layer based CH₃NH₃PbI₃ solar cells

2016

Syed Saad Javaid Muhammad Imran Ahmad Zakir Hussain Muhammad Mujahid Ahmad Nawaz Khan Amir Habib
AIP Advances, Volume:6, Issue:6, Article Number:065303

Impact Factor: 1.568 | **Quartile:** 3 | **Citations:** 31
DOI: 10.1063/1.4953397

Glass transition behavior of poly(trimethylene 2,6-naphthalate) in nanoclay confinement

2015

Ahmad Nawaz Khan Wei-Tsung Chaung Aneela Hayder Po-Da Hong
Composites: Polymer Science Series A, Volume 57, Issue 6, Pages 874-882

Impact Factor: 0.760 | **Quartile:** 4 | **Citations:** 8
DOI: DOI:10.1134/S0965545X15060127