Amir Azam Khan

Professor

School of Chemical & Materials Engineering

Email: principal@scme.nust.edu.pk
Contact: 518893322
LinkedIn:

About

Dr. Amir Azam Khan is working as Professor in the School of Chemical & Materials Engineering. Dr. Amir Azam Khan has a PhD in Ceramic Materials And Surface Treatment. Dr. Amir Azam Khan has published 37 research articles & conference papers having a citation count of 385, carried out 2 projects and filed 0 intellectual property.

Qualifications

PhD in Ceramic Materials And Surface Treatment 1991 - 1995
Université de Limoges , France

D.A,E in (Ceramic Materials & Surface Treatments) 1989 - 1991
Université de Limoges , France

BE in (Metallurgical Engg & Materials Science) 1983 - 1987
UET Lahore , Pakistan

Experience

Professor 2024- Present
School of Chemical & Materials Engineering

Professor 2020 - 2009
School of Chemical & Materials Engineering

Adjunct Faculty 2018 - 2017
School of Chemical & Materials Engineering

Adjunct Faculty 2017 - 2020
School of Chemical & Materials Engineering

Professor 2009 - 2018
School of Chemical & Materials Engineering

Professor 2005 - 2020
School of Chemical & Materials Engineering

Professor 2009 - 2020
Universiti Malaysia Sarawak , Malaysia

Assoc Prof & Controller of Exa 2001 - 2005
GIKI, Topi , Swabi, Pakistan

Asst Prof 1996 - 2000
GIKI, Topi , Swabi, Pakistan

Post-doc 1995 - 1996
University of Limoges, France , France

Research Projects

National Projects

4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025) 2025

Funding Agency: ASEAN Pakistan Collaboration Fund
Amount: PKR 24,780,568.00
Status: Approved_inprocess

Establishment of Centre of Research in Surface Engineering (CoRiSE), NUST, Islamabad 2024

Funding Agency: Ministry of Science and Technology
Amount: PKR 1,271,219,000.00
Status: Approved_inprocess

International Projects

Research Articles

Microstructure Evaluation and Impurities in La Containing Silicon Oxynitrides 2021

Abbas Saeed Hakeem Sharafat Ali Thomas Hoche Qasem Ahmed Drmosh Bo Jonson Amir Azam Khan

Nanomaterials , Volume 11(8), Article Number 1896

Impact Factor: 5.719 | **Quartile:** 1 | **Citations:** 2
DOI: https://doi.org/10.3390/nano11081896

Sliding Friction Behavior of Sintered Ni-Cr Composites with Solid Lubricants 2021

Wan Farhana Mohamad Pierre Barroy Olivier Durand Drouhin Clement Puille Abdelilah Lahmar Faiz Ahmad Amir Azam Khan

Key Engineering Materials , Volume 875, Pages 272-279

Impact Factor: 0 | **Citations:** 1
DOI: https://doi.org/10.4028/www.scientific.net/KEM.875.272

Phase analysis and microstructure study of sintered Ni Cr composites containing MoS2 , Ag and CaF 2 additives as solid lubricants 2020

Wan Farhana Mohamad Amir Azam Khan Faiz Ahmad Abdullah Yassin

Journal of Mechanical Engineering and Sciences, Volume 14, Issue 2, Pages 6548-6556

Impact Factor: N/A | **Citations:** 2
DOI: https://doi.org/10.15282/jmes.14.2.2020.02.0514

A Feasibility Study of Low-Power Laser Trepanning Drilling of Composite Using ModifiedDVDWriter 2020

Nurfairuz Nadirah Affandi Khairul Fikri Tamrin Kaveh Moghadasi Mohd Ridzuan Mohamad Sharip Shahrol Mohamaddan Anamul Hossain Amir Azam Khan

International Journal of Integrated Engineering, Volume 12(3), Pages 187-196

Impact Factor: N/A | **Citations:** 2
DOI: https://doi.org/10.30880/ijie.2020.12.03.022

Synthesis and Characterization of lead-free piezoelectric (K0.5Na0.5)NbO3 produced with improved calcination temperature" 2020

Nor Amalina Ahmad Dzetty Soraya Abdul Aziz Norni Hidayawati Mat Daud Rahim Noor Amir Azam Khan

Jurnal Teknologi: Sciences & Engineering, Volume 82(2), Pages 139-147

Impact Factor: N/A | **Citations:** 1
DOI: https://doi.org/10.11113/jt.v82.13992

The Property Characterization of α-Sialon/Ni Composites Synthesized by Spark Plasma Sintering 2019

Adedayo Sheriff Adeniyi Bilal Anjum Ahmed Abbas Saeed Hakeem Faheemuddin Patel Akolade Idris Bakare Anwar Ul-Hamid Amir Azam Khan Muhammad Ali Ehsan Tahir Irfan Khan Anwar Ul-Hamid Amir Azam Khan Muhammad Ali Ehsan Tahir Irfan Khan

Nanomaterials , Volume 9, Issue 12, Article Number 682

Impact Factor: 4.324 | **Quartile:** 2 | **Citations:** 19
DOI: 10.3390/nano9121682

Development of amino-functionalized silica nanoparticles for efficient and rapid removal of COD from pre-treated palm oil effluent 2019

Syed Salman Shafqat Amir Azam Khan Muhammad Nadeem Zafar Mohammed Haji Alhaji Khairuddin Sanaullah Syed Rizwan Shafqat Shahzad Murtazaa Suh Cem Pange

Journal of Materials Research and Technology, Volume 8, Issue 1, Pages 385-395

Impact Factor: 5.289 | **Quartile:** 1 | **Citations:** 72
DOI: https://doi.org/10.1016/j.jmrt.2018.03.002

Removal of Congo Red Dye from Aqueous Solution using Branches of Ficus religiosa 2018

Amir Azam Khan Syed Salman Shafqat Maria Nosheen Syed Rizwan Shafqat Shahzad Murtaza Muhammad Zubair Muhammad Nadeem Zafar
Malaysian Applied Biology, Volume 47(1), Pages 103-108
Impact Factor: N/A
DOI: 0126-8643

An evaluation of the B4C formation in sintered ZrB2-SiC ceramic composites at 2100 °C 2018
Dayang Salyani Abang Mahmod Amir Azam Khan Nicolas Glandut Jean-Claude Labbe
Journal of Alloys and Compounds, Volume 735, Pages 510-515
Impact Factor: 4.175 | **Quartile:** 1 | **Citations:** 5
DOI: https://doi.org/10.1016/j.jallcom.2017.11.170

Green Synthesis and Characterization of 3 Carboxycoumarin and Ethylcoumarin-3-carboxylate via Knoevenagel Condensation 2017
Syed Salman Shafqat Amir Azam Khan Misbahul Ain Khan Shanti Faridah Salleh Mohd Syahmi Jamaludin Pang Suh Cem
Asian Journal of Chemistry, Vol. 29, No 2, Pages 261-266
Impact Factor: N/A | **Citations:** 6
DOI: 10.14233/ajchem.2017.20142

The Effect of Thermal Perturbation on a Polymer Material's Tensile Test via Simulation and Experimental Analysis 2016
M.Q.Sazali M.S.Z.M.Suffian Amir Azam Khan S. Mohamaddan A. Yassin M. Yusof S.A. Rashidi M.H.I. Saad
Journal of Telecommunication, Electronic and Computer Engineering, Volume 8, No. 12, Pages 141-145
Impact Factor: N/A
DOI: DOI

Efficient Eco-Friendly Synthesis of Pyrazole Acryloyl Analogues by Amino Acid Catalysis 2016
Faryal Chaudhry Nadia Asif Syed Salman Shafqat Amir Azam Khan Munawar Ali Munawar Misbahul Ain Khan
Synthetic Communications, Volume 46, Issue 8, Pages 701-709
Impact Factor: 1.134 | **Quartile:** 3 | **Citations:** 11
DOI: https://doi.org/10.1080/00397911.2016.1164863

Surface oxidation of porous ZrB2-SiC ceramic composites by continuous-wave ytterbium fibre laser 2015
Dayang Salyani Abang Mahmo Nicolas Glandut Amir Azam Khan Jean-Claude Labbe
Applied Surface Science, Volume 357, Part B, Pages 1982-1990
Impact Factor: 3.150 | **Quartile:** 1 | **Citations:** 12
DOI: https://doi.org/10.1016/j.apsusc.2015.09.164

N-succinyl chitosan preparation, characterization, properties and biomedical applications: A state of the art review, 2015
Amir Azam Khan Shahid Bashir Yin Yin Teo S. Ramesh K. Ramesh
Reviews in Chemical Engineering, Volume 31(6), Pages 563-597
Impact Factor: 2.163 | **Quartile:** 2 | **Citations:** 66
DOI: https://doi.org/10.1515/revce-2015-0016

Synthesis of Arylidene Propanedioic Acids, by Knoevenagel Condensation for use in Ceramic Sols 2014
Syed Salman Shafqat Misbahul Ain Khan Azham Zulkharnain Sinin Hamdan Andrew Ragai Henry Rigit Amir Azam Khan
Asian journal of Chemistry, Volume 26, Issue 24, Pages 8463-8466
Impact Factor: N/A
DOI: https://doi.org/10.14233/ajchem.2014.17749

The effect of sound absorption coefficient of particle addition to polyurethane matrix composites 2014
Amir Azam Khan Yiong Ngee Fe
Australian Journal of Basic and Applied Sciences, Volume 8(15), Special 2014, Pages 246-251
Impact Factor: N/A
DOI: 2309-8414

Advanced ceramic matrix composites for high energy x-ray generation 2012
Jean Claude Labbe Amir Azam Khan
Advances in Natural Sciences: Nanoscience and Nanotechnology, Volume 2, Article Number 045015
Impact Factor: N/A | **Citations:** 1
DOI: 10.1088/2043-6262/2/4/045015

Strontium Doped Lead Zirconate Titanate Ceramics: Study of Calcination and Sintering Process to Improve Piezo Effect 2011
Muhammad Shoaib Amir Azam Khan Muhammad Khalid

Journal of Nanoscience and Nanotechnology, Volume 11, Number 6, Pages 5440-5445

Impact Factor: 1.563 | **Quartile:** 2 | **Citations:** 9

DOI: https://doi.org/10.1166/jnn.2011.3791

Influence of Nano-Aiumina and Mullite on the Sintering Behavior of Hotpressed Silicon Carbide 2008

Shahid Rasul Daniel Tetard J. C. Labbe Amir Azam Khan

NUST Journal of Engineering Sciences, Volume 1, Issue 1, Pages 91-96

Impact Factor: N/A

DOI: https://doi.org/10.24949/njes.v1i1.63

Influence of substrate surface conditions on the plasma sprayed ceramic and metallic particles flattening 2005

A.A.Syed A.Denoirjean B.Hannoyer P.Fauchais J.C.Labbe Amir Azam Khan P. Denoirjean

Surface and Coatings Technology, Volume 200, Issue 7, Pages 2317-2331

Impact Factor: 1.646 | **Quartile:** 1 | **Citations:** 62

DOI: https://doi.org/10.1016/j.surfcoat.2005.01.014

Effect of oxide additives and particle size on stabilization of treated commercial zirconia 2001

Maham Yasmeen Syed Asif Ansar Thierry Joyeux Jean Claude Labbe Amir Azam Khan

Journal of Materials Engineering and Performance, Volume 10, Pages542-547

Impact Factor: 0.268 | **Quartile:** 4 | **Citations:** 1

DOI: https://doi.org/10.1361/105994901770344683

Processing and microstructure of alumina-based composites 1999

M. Mujahid M.I. Qureshi M. Islam Amir Azam Khan

Journal of Materials Engineering and Performance, Volume 8(4), Pages 496-500

Impact Factor: 0.232 | **Quartile:** 3 | **Citations:** 3

DOI: https://doi.org/10.1361/105994999770346828

Effect of heating cycle on the structure of Ag films deposited over porcelain substrates 1998

J.C. Labbe Amir Azam Khan

Journal of Materials Engineering and Performance, Volume 7, Issue 6, Pages 757-760

Impact Factor: 0.118 | **Quartile:** 4 | **Citations:** 1

DOI: https://doi.org/10.1361/105994998770347323

Aluminium nitride-molybdenum ceramic matrix composites. Influence of molybdenum addition on electrical, mechanical and thermal properties 1997

Jean Claude Labbe Amir Azam Khan

Journal of the European Ceramic Society, Volume 17, Issues 15-16, Pages 1885-1890

Impact Factor: 0.913 | **Quartile:** 1 | **Citations:** 38

DOI: https://doi.org/10.1016/S0955-2219(97)00071-X

Molybdenum ceramic matrix composites possessing high thermal shock resistance 1997

Jean Claud Labbe Amir Azam Khan

Materials Science and Engineering A , Volume 230, Issues 1–2, Pages 33-38

Impact Factor: 0.842 | **Quartile:** 2

DOI: http://dx.doi.org/10.1016/S0921-5093(97)00012-9.

Aluminium nitride–molybdenum ceramic matrix composites: influence of molybdenum concentration on the mechanical properties 1997

Amir Azam Khan J.C. Labbe

Journal of Materials Science , Volume 32, Pages 3829-3833

Impact Factor: 0.669 | **Quartile:** 2 | **Citations:** 25

DOI: https://doi.org/10.1023/A:1018636025842

Molybdenum and tungsten coatings for X. Ray targets, obtained through Low Pressure Plasma Spraying process 1997

Amir Azam Khan J. C. Labbe A. Grimaud P. Fauchais

Journal of Thermal Spray Technology, Volume 6, Issue 2, Pages 228-234

Impact Factor: 0.800 | **Quartile:** 2 | **Citations:** 13

DOI: 10.1007/s11666-997-0017-5

Influence of molybdenum on thermal properties of CMCs 1996

J. C. Labbe Amir Azam Khan

American Ceramic Society Bulletin , Volume 75(8), Pages 52-56

Impact Factor: N/A
DOI: https://doi.org/10.1016/S0921-5093(97)012-9

Aluminium Nitride-Molybdenum Ceramic Matrix Composites: Characterization of Ceramic-Metal Interface 1996

Amir Azam Khan J. C. Labbe

Journal of the European ceramic Society, Volume 16, Issue 7, Pages 739-744

Impact Factor: N/A | **Citations:** 33
DOI: 10.1016/0955-2219(95)00203-0

Conference Proceedings

Physical and Mechanical Properties of Ni-Cr based composites with addition of solid lubricants produced through powder metallurgy process 2016

Mohamad W.F. Amir Azam Khan Ahmad F Abdullah Yassin

9th International UNIMAS-STEM Engineering Conference, 26-27 October, 2016 Kuching, Malaysia, res.country(157,)

Citations: N/A
DOI: 10.1051/matecconf/20178702011

Environmentally Benign Syntheses and Characterization of 4-Aryldihydropyrimidin-2 (1H)-ones 2016

Syed Salman Shafqat Amir Azam Khan Misbahul Ain Khan Nicholas Kuan Hoo Tien Mohd Syahmi Jamaludin Pang Suh Cem

9th International UNIMAS-STEM Engineering Conference, res.country(157,)

Citations: N/A
DOI: 10.1051/ ENCON 2016 MATEC Web of Conferences matecconf/20178702025

Laser surface treatment of porous ceramic substrate for application in solid oxide fuel cells 2016

Mahmod D.S.A. Amir Azam Khan Munot M.A. Glandut N. Labbe J.C.

14th International Symposium on Advanced Materials (ISAM2015),, res.country(282,)

Citations: N/A
DOI: 10.1088/1757-899X/146/1/012002

Effect of mold designs on molten metal behaviour in high-pressure die casting 2016

M D Ibrahim M R A Rahman A A Khan M R Mohamad [M S Z M Suffian Y S Yunos L K Wong M Z Mohtar

15th Asian Congress of Fluid Mechanics, res.country(157,)

Citations: N/A
DOI: 10.1088/1742-6596/822/1/012029

Synthesis and characterization of heterocyclic-ORMOCERS composites through Sol-gel process: A Review 2014

Amir Azam Khan Syed Salman Shafqat Sinin Hamdan Sinin Hamdan Nicholas Kuan Hoo Tien Shanti Faridah Saleh

5th International Conference on Science & Technology: Applications in Industry & Education (ICSTIE 2014), res.country(157,)

Citations: N/A
DOI: -

Surface engineering glass-metal coatings designed for induction heating of ceramic components 2013

Amir Azam Khan J.C. Labbe

13th International Symposium on Advanced Materials (ISAM2013), res.country(282,)

Citations: N/A
DOI: 10.1088/1757-899X/60/1/012017

Study of Heat Treatment Cycle of Aluminum Magnesium (AA6061) Heat Treatable Alloys for Structural Applications 2011

Amir Azam Khan S. A/L GUNASEKHARAN

7th International Conference on Steel & Aluminum Structures, 13-15 July, 2011, Kuching, res.country(157,)

Citations: N/A
DOI: 10.3850/978-981-08-9247-0_rp012-icsas11

Effect of Silica and Magnesia addition on the densification and structure of sintered alumina. 1999

Amir Azam Khan M.Islam

6th Int. Symp. On Advanced Materials, res.country(282,)

Citations: N/A
DOI: -