

Amir Azam Khan

Professor

School of Chemical & Materials Engineering

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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 Université de Limoges , France	1991 - 1995
D.A,E in (Ceramic Materials & Surface Treatments) Université de Limoges , France	1989 - 1991
BE in (Metallurgical Engg & Materials Science) UET Lahore , Pakistan	1983 - 1987

Experience

Professor School of Chemical & Materials Engineering	2024- Present
Professor School of Chemical & Materials Engineering	2020 - 2009
Adjunct Faculty School of Chemical & Materials Engineering	2018 - 2017
Adjunct Faculty School of Chemical & Materials Engineering	2017 - 2020
Professor School of Chemical & Materials Engineering	2009 - 2018
Professor School of Chemical & Materials Engineering	2005 - 2020
Professor Universiti Malaysia Sarawak , Malaysia	2009 - 2020
Assoc Prof & Controller of Exa GIKI, Topi , Swabi, Pakistan	2001 - 2005
Asst Prof GIKI, Topi , Swabi, Pakistan	1996 - 2000
Post-doc University of Limoges, France , France	1995 - 1996

Research Projects

National Projects

4th ASEAN-Pakistan Conference on Materials Science (APCoMS 2025) Funding Agency: ASEAN Pakistan Collaboration Fund Amount: PKR 24,780,568.00 Status: Approved_inprocess	2025
Establishment of Centre of Research in Surface Engineering (CoRiSE), NUST, Islamabad Funding Agency: Ministry of Science and Technology Amount: PKR 1,271,219,000.00 Status: Approved_inprocess	2024

International Projects

Research Articles

Microstructure Evaluation and Impurities in La Containing Silicon Oxynitrides <i>Abbas Saeed Hakeem Sharafat Ali Thomas Hoche Qasem Ahmed Drmash Bo Jonson Amir Azam Khan</i> <i>Nanomaterials</i> , Volume 11(8), Article Number 1896 Impact Factor: 5.719 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/nano11081896	2021
Sliding Friction Behavior of Sintered Ni-Cr Composites with Solid Lubricants <i>Wan Farhana Mohamad Pierre Barroy Olivier Durand Drouhin Clement Puille Abdelilah Lahmar Faiz Ahmad Amir Azam Khan</i> <i>Key Engineering Materials</i> , Volume 875, Pages 272-279 Impact Factor: 0 Citations: 1 DOI: https://doi.org/10.4028/www.scientific.net/KEM.875.272	2021
Phase analysis and microstructure study of sintered Ni Cr composites containing MoS2 , Ag and CaF 2 additives as solid lubricants <i>Wan Farhana Mohamad Amir Azam Khan Faiz Ahmad Abdullah Yassin</i> <i>Journal of Mechanical Engineering and Sciences</i> , 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	2020
A Feasibility Study of Low-Power Laser Trepanning Drilling of Composite Using ModifiedDVDWriter <i>Nurfairuz Nadirah Affandi Khairul Fikri Tamrin Kaveh Moghadas Mohd Ridzuan Mohamad Sharip Shahrol Mohamaddan Anamul Hossain Amir Azam Khan</i> <i>International Journal of Integrated Engineering</i> , Volume 12(3), Pages 187-196 Impact Factor: N/A Citations: 2 DOI: https://doi.org/10.30880/ijie.2020.12.03.022	2020
Synthesis and Characterization of lead-free piezoelectric (K0.5Na0.5)NbO3 produced with improved calcination temperature” <i>Nor Amalina Ahmad Dzetty Soraya Abdul Aziz Norni Hidayawati Mat Daud Rahim Noor Amir Azam Khan</i> <i>Jurnal Teknologi: Sciences & Engineering</i> , Volume 82(2), Pages 139-147 Impact Factor: N/A Citations: 1 DOI: https://doi.org/10.11113/jt.v82.13992	2020
The Property Characterization of α-Sialon/Ni Composites Synthesized by Spark Plasma Sintering <i>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</i> <i>Nanomaterials</i> , Volume 9, Issue 12, Article Number 682 Impact Factor: 4.324 Quartile: 2 Citations: 19 DOI: 10.3390/nano9121682	2019
Development of amino-functionalized silica nanoparticles for efficient and rapid removal of COD from pre-treated palm oil effluent <i>Syed Salman Shafqat Amir Azam Khan Muhammad Nadeem Zafar Mohammed Haji Alhaji Khairuddin Sanaullah Syed Rizwan Shafqat Shahzad Murtazaa Suh Cem Pange</i> <i>Journal of Materials Research and Technology</i> , 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	2019
Removal of Congo Red Dye from Aqueous Solution using Branches of Ficus religiosa	2018

<i>Amir Azam Khan Syed Salman Shafqat Maria Nosheen Syed Rizwan Shafqat Shahzad Murtaza Muhammad Zubair Muhammad Nadeem Zafar Malaysian Applied Biology</i>, 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 <i>Dayang Salyani Abang Mahmod Amir Azam Khan Nicolas Glandut Jean-Claude Labbe Journal of Alloys and Compounds</i>, Volume 735, Pages 510-515 Impact Factor: 4.175 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.jallcom.2017.11.170	2018
Green Synthesis and Characterization of 3 Carboxycoumarin and Ethylcoumarin-3-carboxylate via Knoevenagel Condensation <i>Syed Salman Shafqat Amir Azam Khan Misbahul Ain Khan Shanti Faridah Salleh Mohd Syahmi Jamaludin Pang Suh Cem Asian Journal of Chemistry</i>, Vol. 29, No 2, Pages 261-266 Impact Factor: N/A Citations: 6 DOI: 10.14233/ajchem.2017.20142	2017
The Effect of Thermal Perturbation on a Polymer Material's Tensile Test via Simulation and Experimental Analysis <i>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</i>, Volume 8, No. 12, Pages 141-145 Impact Factor: N/A DOI: DOI	2016
Efficient Eco-Friendly Synthesis of Pyrazole Acryloyl Analogues by Amino Acid Catalysis <i>Faryal Chaudhry Nadia Asif Syed Salman Shafqat Amir Azam Khan Munawar Ali Munawar Misbahul Ain Khan Synthetic Communications</i>, Volume 46, Issue 8, Pages 701-709 Impact Factor: 1.134 Quartile: 3 Citations: 11 DOI: https://doi.org/10.1080/00397911.2016.1164863	2016
Surface oxidation of porous ZrB2-SiC ceramic composites by continuous-wave ytterbium fibre laser <i>Dayang Salyani Abang Mahmo Nicolas Glandut Amir Azam Khan Jean-Claude Labbe Applied Surface Science</i>, 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	2015
N-succinyl chitosan preparation, characterization, properties and biomedical applications: A state of the art review, <i>Amir Azam Khan Shahid Bashir Yin Yin Teo S. Ramesh K. Ramesh Reviews in Chemical Engineering</i>, Volume 31(6), Pages 563-597 Impact Factor: 2.163 Quartile: 2 Citations: 66 DOI: https://doi.org/10.1515/revce-2015-0016	2015
Synthesis of Arylidene Propanedioic Acids, by Knoevenagel Condensation for use in Ceramic Sols <i>Syed Salman Shafqat Misbahul Ain Khan Azham Zulkharnain Sinin Hamdan Andrew Ragai Henry Rigit Amir Azam Khan Asian journal of Chemistry</i>, Volume 26, Issue 24, Pages 8463-8466 Impact Factor: N/A DOI: https://doi.org/10.14233/ajchem.2014.17749	2014
The effect of sound absorption coefficient of particle addition to polyurethane matrix composites <i>Amir Azam Khan Yiong Ngee Fe Australian Journal of Basic and Applied Sciences</i>, Volume 8(15), Special 2014, Pages 246-251 Impact Factor: N/A DOI: 2309-8414	2014
Advanced ceramic matrix composites for high energy x-ray generation <i>Jean Claude Labbe Amir Azam Khan Advances in Natural Sciences: Nanoscience and Nanotechnology</i>, Volume 2, Article Number 045015 Impact Factor: N/A Citations: 1 DOI: 10.1088/2043-6262/2/4/045015	2012
Strontium Doped Lead Zirconate Titanate Ceramics: Study of Calcination and Sintering Process to Improve Piezo Effect <i>Muhammad Shoaib Amir Azam Khan Muhammad Khalid</i>	2011

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

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

Influence of Nano-Alumina 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, Pages 542-547

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](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](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](https://doi.org/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](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/mateconf/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 mateconf/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: -