

## JAMAL ALSADI

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Associate Professor College of Engineering  
Department of Renewable Energy Engineering  
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**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=47560922900>

**LinkedIn:** <https://www.linkedin.com/in/jamal-alsadi-3b550526/>

**Google scholar:** <https://scholar.google.com/citations?user=k16nyFAAAAAJ&hl=en>

**Research gate:** <https://www.researchgate.net/profile/Jamal-Alsadi>

[Jamal Al Sadi \(0000-0001-8108-2551\) \(orcid.org\)](https://orcid.org/0000-0001-8108-2551)

### BRIEF BIO

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Dr. Jamal Alsadi holds Master's and Ph.D. degrees in Mechanical Engineering from Concordia University and the University of Ontario Institute of Technology (UOIT), Canada. He has been an Associate Professor since 2023 and currently serves as the Head of the Department of Renewable Energy Engineering (since 2021). He previously served as an Assistant Professor at Jadara University from 2019 to 2023. Dr. Alsadi has also been the Assistant Executive Dean since 2022.

He is an active member of several academic and professional bodies, including the Scientific Research Committee of the Engineering Department, the Engineering College Council, and the Renewable Energy Engineering Board. He has contributed significantly to establishing and preparing laboratory equipment and course materials for the Renewable Energy Engineering program. Additionally, he is a member of the Scientific Committee of the Jordan Engineers Association (JEA) for the Middle East.

Dr. Alsadi holds the Professional Consultant Engineer (CE) rank awarded by the Jordan Engineers Association and is recognized as an expert in Marine Engineering.

Before joining Jadara University, he served as a Ph.D.–Assistant Professor in the Faculty of Mechanical Engineering Technology at the Higher Colleges of Technology (2015–2019). During this period, he was Chair of the Curriculum Development Committee (CDCC), Track Coordinator, Marine Committee Chair, and Co-Chair of the Maritime Engineering Technology and Naval Architecture Program Academic Council.

Prior to that, he worked as a Teaching Assistant and Researcher at UOIT (2008–2015) and conducted research in Material Engineering at SABIC–Canada. His research focuses on understanding the scientific causes of color mismatch in plastic compounds and exploring the relationships among material properties and processing parameters during polymer compounding. His expertise includes rheology, polymer processing, polymer blends, and material characterization.

Dr. Alsadi has over twenty-five years of combined experience in research, teaching (approximately 40 different courses), mechanical engineering, marine engineering, naval engineering, and plastic engineering. He has published about 75 articles in international journals and conference proceedings and continues to develop new research studies.

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Ph.D., Mechanical Engineering, University of Ontario Institute of technology, Canada	(GPA 4.3/4.3)	2015
M.Eng. Mechanical Engineering, Concordia University, Montreal, Canada	(GPA 3.76/4.0)	2003
B.Sc., Marine Mechanical Engineering, Arabian Gulf Maritime Academy, Basrah, Iraq	(GPA B <sup>+</sup> )	

AREA OF RESEARCH - Material Engineering , Manufacturing Technology and Renewable Energy Engineering

#### THESIS DESCRIPTION

My research, conducted in collaboration with SABIC–Canada (2008–2015), focused on identifying the scientific causes of color mismatch in plastic compounds and examining the relationships between material properties and processing parameters during plastic compounding. The work covered rheology, polymer processing, polymer blends, and material characterization. The thesis incorporated practical and industrial applications, including process optimization using Design of Experiments (DOE), neural network modeling, processing challenges, and the rheological behavior of compounded polycarbonate grades. This research was jointly undertaken by the University of Ontario Institute of Technology (UOIT) and SABIC, Cobourg, Ontario, Canada.

I have extensive research experience in rheological characterization, polymers and polycarbonate materials, advanced characterization methods, fabrication techniques, and mechanical systems. I am proficient in a wide range of laboratory and analytical equipment, including DSC, DMA, DTA, TGA, rheometers, SEM, optical microscopy, micro-CT scanning, particle size analysis, hydraulic hot press systems, auto-rotational microtome, FTIR, and Raman microscopy. I also possess strong teaching experience in areas such as structural and manufacturing engineering, automotive engineering, advanced materials, characterization techniques, composite materials, and nanomaterials. This work provided valuable insights for industry, offering improved understanding of color consistency in plastic compounding and contributing to the development of optimized processing strategies for commercial polymer products.

Master of Mechanical Engineering (M.Eng.), Concordia University, Montreal, Canada (2003): *Related Courses:* Advanced Concepts in Quality Improvement, Casting, Industrial Automation, Metal Machining, Surface technology, Human Factors Engineering, Materials

Composition (Advance materials), Discrete Optimizations and Concurrent Engineering. ”

“*Related Projects:* Automobile Emissions Reduction, Water Jet Cutting Machines, Quality Improvement”

Ph.D.: *Related Courses:* Fuel Cells & Hydrogen Systems, Safety Instrument system- NUCL, Reliability & Maintenance Engineering-NUCL, Advance material, Advanced and Smart Materials, Polymers and Composite Processing, Continuance Course-Graduate St, Ph.D. Workshops I, GR PhD Seminar I, GR PhD Seminar II , PhD Candidacy Exam

#### PROFESSIONAL EXPERIENCE

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Associate Professor, Jadara University, Irbid, Jordan	June 2023	To date
Assistant Executive Dean for Engineering College	From 2022	To date
Head of the Department of Renewable Energy Engineering	From 2021	To date
Consultant Engineer (CE), Professional Degree, JEA).	From 2021-	To date
Assistant Professor, Head Department of Renewable Engineering <i>Jadara University, Irbid, Jordan</i>	From 2019	June 2023

Assistant Professor, Department of Mechanical Engineering. Higher College Technology 2015 2019  
Researcher and Teaching Assistant, Department of Mechanical Engineering 2008 2015  
University of Ontario Institute of Technology, Oshawa, Ontario, Canada

Teaching Courses:

- Statics
- Fluids Mechanics
- Hydraulic Engineering
- Mechanic of Materials (Strength of Materials)
- Renewable Energy Resources
- Workshop
- Dynamics and Statics
- Static
- Thermodynamics
- Design Machine Elements
- Heat Transfer
- Legislation and Management of REE
- Field Training
- Graduate Project I+II
- Energy economy and Efficiency

Research:

- Rheology
- Well conversant with DSC, DMA, DTA, TGA, Rheometer
- Characterization techniques and Process Optimization
- Processing Parameters
- Color Mismatch and Color Properties,
- FTIR and Raman Microscopy
- Renewable Energy

Assistant Professor, Department of Mechanical Engineering Oct 2015 – 31 Dec 2018/2019  
*Higher College of Technology, Abu Dhabi, United Arab Emirates*

Courses:

- Material Selection and Testing,
- Manufacturing Technology-I
- Manufacturing Technology-II
- Fabrication and Welding
- Marine industrial overview
- Marine characteristics
- Marine surveying

Research:

- Rheology
- Characterization techniques and Process Optimization
- Processing Parameters
- Color Mismatch and Color Properties,
- Polymers, polycarbonate, pigments, and additive materials

Researcher and Teaching Assistant, Department of Mechanical Engineering April 2008 – Aug 2015  
*University of Ontario Institute of Technology, Oshawa, Ontario, Canada*

Courses:

- Advanced Materials Engineering,
- Kinematic & Dynamic,
- Manufacturing and Production Processes

Research:

- Investigates of scientific reasons causing a color mismatch in plastic compounds
- Study the relationship among materials and processing parameters during compounding of plastics

- Rheology and plastics processing, polymer blends and material characterizations.

## HONORS AND AWARDS

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- The most deserving graduate of the doctoral prize in Engineering and Computer Science, University of Ontario Institute of Technology (UOIT), 2015. Partial tuition scholarship due maintaining GPA- A<sup>+</sup>.
- Graduate Student Scholarship 2009-2010, UOIT, Canada, Reason of Award is Academic Performance
- Graduate Student Scholarship 2009-2010, UOIT, Canada, Reason of Award is Research on Selected Topic.
- Millennium Graduate Award 2008-2009, UOIT, Canada, Reason of Award is Academic Performance.
- Dean Graduate Scholarship – Doctoral 2009, Canada, and Reason of Award is Academic Performance.
- Textbook and technology Award 2010, Canada, Reason of Award is Academic Performance.
- Graduate Student Scholarship-Doctoral 2009-2010, UOIT, Reason of Award is Research on Selected Topic.
- Concordia University Partial Tuition Scholarship.

## TEACHING EXPERIENCE

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1. Advanced Materials Engineering-University of Ontario Technical Technology
2. Manufacturing Technology-I-HCT
3. Manufacturing Technology-II –HCT
4. Fabrication& Welding-HCT
5. Manufacturing and Production Processes - University of Ontario Technical Technology
6. Material Selection and Testing-UOIT-HCT
7. Kinematic & Dynamic. Of Machine- University of Ontario Technical Technology
8. Manufacturing lab&CNC- University of Ontario Technical Technology-HCT
9. Internal Combustion Engines (Marine engineering)-HCT
10. Marine industrial overview (Marine engineering)-HCT
11. Marine characteristics (Marine engineering)-HCT
12. Marine surveying (Naval Architecture Engineering)-HCT
13. Marine Safety (Naval Architecture Engineering)-HCT
14. Metal manufacturing Process Lab-HCT
15. Internal Combustion Engines Lab –HCT
16. Fabrication &Welding workshop –HCT
17. Material Engineering Lab - University of Ontario Technical Technology
18. SABIC-Innovative plastic plant (Extrusion, Molding, Testing color, plastic test and color labs)
19. Statics-Jadara University
20. Fluids Mechanics- Jadara University
21. HydraulicEngineering- Jadara University
22. Mechanic of Materials (Strength of Materials).- Jadara University
23. Renewable Energy Engineering(Solar &Wind Energy)- Jadara University
24. Design of Machine Elements-I- Jadara University
25. Design of Machine Elements-II- Jadara University
26. Energy management and legislation- Jadara University
27. Renewable Energy Resources –J.U
28. Statics and Dynamics-Jadara Univ
29. Dynamics- Jadara University
30. Thermodynamics-I- Jadara Univ
31. Thermodynamics-II- Jadara Univ
32. Strenght of materials-Jadara.Unv
33. Heat Transfer-Jadara Unv
34. Measuring intsruments
35. Power Production
36. Power Conversion
37. Field Training

38. Graduate Project I+II
39. Workshop
40. Practical training
41. Energy economy and Efficiency
42. Introduction to solar Energy

## TEACHING GOALS

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- Complementing the existing expertise with the new technologies and novel areas.
- Having graduates with solid understanding of engineering concepts.
- Increase the graduate's confidence in what they have learned and practice applying it.
- Enhance the graduate communication, conceptual thinking and reporting skills.
- Contributing in improvement the learning skills of the teaching assistants.
- Meet the social objectives of the continuing education and industrial training programs.
- Effective use of technology/ hybrid learning, e-caf, Cars, Master shell notes, presentations-ppt, e.g. Create BBL. Prepare marking schemes, rubrics, mock exams, assignments, quizzes etc. Prepare FWA questions and answers and used online exams by using respondus software.
- Continuous Quality Improvement
- Providing continuing education to community organizations through promotions, workshops and training programs.
- Undertake curriculum, program development, and course design.

## INDUSTRIAL EXPERIENCE

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Marine Chief Engineer 1998 – 2001

*Sea Bulk International Inc. (U.S.A.), Dubai, United Emirates*

- Ensured that all mechanical systems were working efficiently and properly including hydraulic, electric, pneumatic, water generating systems, auxiliary machines, boilers, generators, HVAC, and refrigeration systems, safety systems, steering gear, heat-exchangers, lubrication, balance, tanks, diesel engines, painting, welding and fabrications, sewage, dry-docking, piping's, pumps, compressors, purifiers, batteries, watertight doors, emergency generator and firefighting pumps, and bilges to high standard conditions.
- Identified preventive maintenance requirements and ensured that all systems, equipment's, and machines were equipped with necessary parts.

Marine Superintendent Engineer 1997 – 1998

*Emirate Shipping Company, Sharjah, United Emirates*

- Responsible for inspections and testing of the mechanical systems, deck, machinery, electrical systems, electronic instruments, and safety equipment's of the ships, prior to classification of marine surveyor.
- Reviewed and corrected any problems reported by Engineers, i.e., ordered and purchased the requested spares, organized sub-contractor attendance for specialized items, and ensured that all repairs tested and run to standard operating conditions.
- Managed office, ship surveys, scheduled the class certificate validation.
- Reporting accidents, and administering insurance claims.
- Identified preventive maintenance requirements and ensured that each vessel engineer supplied with necessary parts

Senior Engineers 1995 – 1997

*Port Zayed, Abu Dhabi, United Emirates*

- Ensured that marine mechanical systems and vessel systems were operational on high standard running conditions and operations.
- Maintained variant power main engines, reduction gears, and auxiliary machines, anchor handling, towing's, all on high standard conditions.
- Completed general maintenance and overhauling for defective machines.

Marine Superintendent Engineer

1990 – 1995

*Mutawa Marine Group Company, Abu Dhabi, United Emirates*

- Responsible for inspections and testing of the mechanical systems, deck, machinery, electrical systems, electronic instruments, and safety equipment's of the ships, prior to classification of marine surveyor.
- Identified preventive maintenance requirements and ensured that each vessel engineer supplied with necessary parts or equipment.
- Ensured that marine mechanical systems and vessel systems were operational on high standard running conditions and operations.
- Ensured that mechanical ship systems are fully on high standard.

Chief Marine Engineer

1985 – 1990

*National Marine Service Company (NMS-Esnaad), Abu Dhabi, United Emirates*

- Identified safety and preventive maintenance requirements and maintain necessary parts or equipment to carry out such maintenance and carry full watch keeping shifts.
- Ensured that mechanical ship systems are fully on high standard conditions.
- Ensured that all mechanical systems were working efficiently and properly including hydraulic, electric, pneumatic, water generating systems, auxiliary machines, boilers, generators, HVAC, and refrigeration systems, safety systems, steering gear, heat-exchangers, lubrication, balance, tanks, diesel engines, painting, welding and fabrications, sewage, dry-docking, piping's, pumps, compressors, purifiers, batteries, watertight doors, emergency generator and firefighting pumps, and bilges to high standard conditions.

## RESEARCH INTERESTS

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- Effect of Processing material, Rheology, Blending of Polymer and additives in plastics
- Characterization of Polymers and composites processing in plastics
- Compounding of polycarbonate blends in plastics
- Materials processing parameters and Rheological characterization during compounding of plastics
- Advance of material and nanomaterials
- Nano Composites
- Polymer, Additives & Pigment
- I have published approximately 35 articles in international journals and conference proceedings, and I am in the process of writing more research articles

## RESEARCH PROJECTS

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Scientific reasons causing a color mismatch in plastic compounds  
2012

2009 -

*SABIC Plastics Canada Inc, Port-Hope, Ontario, Canada*

My research investigates the scientific reasoning causing a color mismatch in plastic compounds and to study the relationship among materials and processing parameters during compounding of plastics such as Rheology, plastics processing, polymer blends and material characterizations.

## RESEARCH GOALS

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- Attracting external funds in order to activate practical and industrial oriented researches.
- Serving the local industries with innovative solutions through collaborative research programs.
- Developing multidisciplinary (Mechanical - Material - Chemistry - Physics) system-levelled researches.

Licenses and Professional Memberships

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- Member, of the American Society of Mechanical Engineers, ASME.
- License of competence to First Class Marine Engineer Officer (Marshall Island).
- License of competence to Second Marine Engineer Officer (Maritime Gulf Academy),
- Membership of Engineering Association in Jordan, Iraq, United emirate
- Refrigeration license (TSSA-Ontario)
- Membership in the Society of Plastics Engineers (SPE) Ontario Student Chapter and SPE (USA)
- Member of Renewable energy engineering –Jadara University
- Member for the scientific committee for Jordan Engineering Associations (JEA) for the middle east
- Certificate of Consultant Engineer
- Certificate of Expert Marine Engineer
- International Academy of Research Engineers and Doctors (IARED)

## PROFESSIONAL SERVICE

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| - Acting Chairman, Department of Marine transport Engineering, ADM | Apr 2016 – Feb 2018    |
| - Representative of the Department of Mechanical Engineering, HCT  | Nov 2015 – Dec 2018    |
| - Committee member and head of the examination committee, HCT      | Nov 2015 – Oct 2018    |
| - Published 35 peer-reviewed papers , HCT                          | Jun 2017 – Sept 2018   |
| - Member, Curriculum Committee, HCT                                | Oct 2015 – Dec 2018    |
| - Member of scientific advising committee in Engineering College   | Oct 2015 – Dec 2018    |
| - Track Coordinator of Curriculum Development Team, HCT            | Apr 2016 – Oct 2018    |
| - Curriculum Development Committee Chair (CDCC), HCT               | Oct 2015 – Dec 2018    |
| - Certification of Appreciation, Abu Dhabi, ECSSR                  | November 9, 2017       |
| - Member of ABET committee/ faculty of engineering at HCT          | 2015-Dec 30 ,2018      |
| - Certification of Appreciation, Abu Dhabi, ECSSR                  | November 9, 2017       |
| - Member of ABET committee/ faculty of engineering at Jadara       | 2019- To date          |
| - Member of Quality Committees-Jadara University                   | 2019-To date           |
| - Member of College Council-Jadara University                      |                        |
| - Development Quality Assurance Center-Jadara University           | 2019-To date11-12/12-1 |
| - ABET workshop Dr Hisham Rabaya-15-12-2025                        |                        |
| - Certificate of participation-Principles of research Ethics       | janauary,7,2026        |

## CONFERENCES ORGANIZED

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| -Member and chair of the Scientific Committee  | August 20, 2018       |
| - <i>Advances in Science and Engineering Technology International Conferences (ASET), HCT</i>                    | 2018                  |
| - <i>Chair Session for MEPE-Italy conference</i>   | 31Dec2020             |
| - Kenote Speaker for the Fourth International Conference on Materials and Environmental Science (ICMES)2020-2021 |                       |
| -IEEE-session chair at the 17th IEEE MCSoc, Kuala Lumpur, Malaysia   | 2024,Dec. 16-19, 2024 |

## REVIEWER

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- Advances in Science, Technology and Engineering Systems Journal (ASTESJ)
- Jordan of Mechanical and Industrial Engineering Associations since 1985
- SPE ANTEC conference in the USA- Chicago-2009
- RETEC conference in USA-Nashville-2010
- SPE ANTEC conference in the USA –Boston-2011
- PPS27-Marrakech-Morocco-2011

- PPS33--USA-2018
- SPE Antec conference –Orlando-Florida-2012
- UOIT Conference-GSC-2013
- SPE ANTEC conference in USA-Anaheim-California-2017
- SPE ANTEC Conference in USA-Texas-
- PPS 33-Conference-Cancun-2017
- ASET-2018-Dubai
- ICMES © 2018-December-Morocco
- IEEE-2018
- AIP Conference Proceedings 2018-2019
- 2nd International Conference on Industrial, Systems & Manufacturing Engineering-Jordan (ISME'19)"2019
- SPE ANTEC Conference in USA-San Antonio-Texas-29 March-2 April-2020-presented online April 21, 2020
- Fourth International Conference on Materials and Environmental Science (ICMES2020)-presented-Virtual online
- MEPE –Conference in Italy-31 Dec, 2020-presented in virtually and recorded online
- SPE ANTEC conference in USA- San Antonio, Texas. 2020
- SPE ANTEC conference in USA- Denver, Colorado. 2021
- ISER –Conference in Ukraine-(WCSE-21), 27 July, 2021-presented in virtually and recorded online
- PPS-36, 36th International Conference of the Polymer Processing Society (PPS) -Montreal –Canada
- ,International Conference on University Leaders ,Iraq-From 23-24/May/2022
- ANM is a conference series on Advanced Nano Materials, Aveiro-Portugal, July-2022
- IEEE-session chair at the 17th IEEE MCSoc 2024, Dec. 16-19, 2024, Kuala Lumpur, Malaysia
- Materials Science, Engineering, Physics-2024 *IEEE 30th International Conference on Telecommunications (ICT) (2024)*, Amman, Jordan
- ICMEN 2024, Selected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, 28-29 September, Kuala Lumpur, Malaysia
- (MCSoc)-2024 IEEE ,17th International Symposium on Embedded Multicore/Many-core Systems- , Kuala Lumpur, Malaysia- 03 January 2025
- (ICSPE)International Conference on Sustainable Power & Energy , 28-29 November 2024, Raigarh · India
- International congress on innovative science Engineering Research for new Era-2024 (ICISER-Nera 2024)-Jadara university .International conference on advance materials (ICAM2025) Jordan University of Science and Technology-irbid-Jordan
- (ICMA 2025-IEEE International Conference on Mechatronics and Automation). August 3–6, 2025. Beijing, China
- The international conference Humboldt-Kolleg-Sustainable Science Development: Transforming Industries and Society (ICER Nerra 2025)-Jadara University-Irbid-September 17-19 ,2025

## TRAINING COURSES

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- Participation in local community projects/ activities- associated with professional organizations as related to discipline, e.g. Field trip done to Abu Dhabi Ship Building-ADSB.
- Many professional organizations offer members to upgrade or refresh their knowledge of science and technical training expertise or acquire new skills in workshops, seminars, conferences, and even online courses. The typical subject matters may run the scope from funding of small project to big commands.
- BBL (profile) software to minimize the associated administrative and physical consume time.
- Student advising software to carry effective student advising Contribute to development of the HCT by monitoring programs and identifying areas improvement.
- CDT e-CAF and CAR assessments software, these tools were effective implementation models to assist the improvement goal.

## PUBLICATIONS: JOURNAL PAPERS

- 
- J1. Bourennani, F. Alsadi, J. Rizvi, G. M., Ross, D, 2011, "Manufacturing Processing Improvements Using Business Intelligence," Journal of Information Technology Review, Vol. 2, No. 3, pp. 125-131.
- J2. Saeed .U. Alsadi, .J, Ahmed. S, Rizvi. G., Ross. D, 2013, "Neural Network: a potential approach for error reduction in color values of polycarbonate" Journal Advance polymer technology. V 33 Issue (2), 2014  
DOI 10.1002/adv.21402.  
Q2 <https://onlinelibrary.wiley.com/doi/fttr/10.1002/adv.21402>  
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/adv.21402>
- J3. Saeed .U. Alsadi, .J, Ahmed. S, Rizvi. G., Ross. D, 2014, "Polymer Color Properties: Neural Network Modelling" publisher Wiley, Journal of Advances in Polymer Technology, S1, V 33,  
<https://doi.org/10.1002/adv.21462>  
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/adv.21462>
- J4. J. Alsadi, U. Saeed, S. Ahmad, G. Rizvi and D. Ross , Processing issues of color mismatch: Rheological characterization of polycarbonate blends, Polymer Engineering & Science, Volume 55, Issue 9, September 2015, Pages: 1994–2001., ISSN-00323888, 15482634  
URL-<https://www.researchgate.net/publication/269419583>  
<https://onlinelibrary.wiley.com/doi/epdf/10.1002/pen.24041>  
<https://www.scimagojr.com/journalsearch.php?q=13695&tip=sid&clean=0>
- J5. Ahmad, S., Alsadi, J., Saeed, U., Rizvi, G., Ross, D., Clarke, R. and Price, J., "Implementation of Box Design for Optimizing Compounding Process Ensuring Consistent Output Color of a Polycarbonate Grade", Quality Engineering, Publisher AIP, Manuscript ID LQEN-2014-0098, Volume1593, Pages 56-59 ,2015
- J6. Ahmad, S. Alsadi, J., Saeed, U., Rizvi, G., Ross, D., Clarke, R. and Price, J., "Process Optimization through Designed Experiments to Achieve Consistency in Output Color of a Compounded Plastic Grade" Quality Engineering, 27 (2), pp. 144-160, 2015. URL- <https://www.researchgate.net/publication/275467197> ,  
DOI: <https://ur.booksc.eu/book/40358272/e9b029> -  
<https://www.scimagojr.com/journalsearch.php?q=13832&tip=sid&clean=0>
- J7. J. Alsadi, Color Mismatch in Compounding Of Plastics: Processing Issues and Rheological Effects (Doctor of Philosophy in Mechanical Engineering, the Faculty of Engineering and Applied Science University of Ontario Institute of Technology). Ontario, Canada (2015). [https://ir.library.dc-uoit.ca/bitstream/10155/579/1/A1-Sadi\\_Jamal.pdf](https://ir.library.dc-uoit.ca/bitstream/10155/579/1/A1-Sadi_Jamal.pdf)
- J8. K. Zouhri, J. Alsadi, L. Ferreira, M. Chkhalsouk, M. Shenneeb, O.A. Khondker, Y. Nimir, Numerical, method of the TiO<sub>2</sub> porosity effect on dye-sensitized solar cell energy efficiency , Elsevier journal-Solar Energy ,issue 155 ,PP 920–933 (2017). <https://www.sciencedirect.com/science/article/pii/S0038092X17305674>, publisher-Elsevier BV  
<https://doi.org/10.1016/j.solener.2017.06.064>  
<https://www.scimagojr.com/journalsearch.php?q=13332&tip=sid&clean=0>
- J9. J. Alsadi, K. Zouhri, "Comparative Investigation on Dispersion and Processing Conditions of Polycarbonate, Composites Evaluated by Microscopic Methods" IJMER journal. Issue 11, ISSN: 2249–6645. Vol. 7 November 2017 |pp- 47-62 [http://www.ijmer.com/papers/Vol7\\_issue11/Version-1/H71114762.pdf](http://www.ijmer.com/papers/Vol7_issue11/Version-1/H71114762.pdf)
- J10. J. Alsadi, Color Mismatch in Compounding of Polycarbonate Composition: Processing Parameters and Pigment Dispersion Effects, J. Mater. Environ. Sci., Volume 8, Issue S, Page 4969-4980, Journal of Materials and Environmental Sciences ISSN: 2028-2508 CODEN: JMESCN. (2017) <http://www.jmaterenvironsci.com/Journal/vol8-S.html>  
[https://www.jmaterenvironsci.com/Document/vol8/vol8\\_NS/527-JMES-3297-Alsadi.pdf](https://www.jmaterenvironsci.com/Document/vol8/vol8_NS/527-JMES-3297-Alsadi.pdf)
- J11. Jamal Alsadi, Designing Experiments: Three Level Full Factorial Design and Variation of Processing Parameters Methods for Polymer Colors,) - ASTES P publisher's, Adv. Sci. Technol. Eng. Syst. J.V- 3 (Issue-5), page 109-115 (2018), <https://astesj.com/v03/i05/p15/>
- J12. Jamal Alsadi, Study on Effect of Dispersion and Processing Parameters in Microscopically Evaluated color of plastic Grade. Submitted in AIP Conference Proceedings Journal. 10.1063/1.5121682,Volume 2139, Issue 1

,Published Online: 26 August 2019, <https://doi.org/10.1063/1.5121682> chrome-extension://dagcmkpagjlhakfdhnbomgmjdpkdklff/enhanced-

reader.html?openApp&pdf=https%3A%2F%2Faip.scitation.org%2Fdoi%2Fpdf%2F10.1063%2F1.5121682

J13. J. Alsadi, Investigation of the effects of Formulation, process parameters, Dispersions, and Rheology on using combined Modelling and experimental Simulations. This paper was accepted on the ICMES © 2018-Morocco. Conference 2nd International Conference on Material and Environmental Science (ICMES © 2018), abstract-ID: 1276, paper accepted on January 16, 2018 This paper was re-modified, Re-submitted via the Scopus of science direct material today proceeding 2018.

J14. J. Alsadi, Investigation of the effects of Formulation, process parameters, Dispersions, and Rheology on using combined Modelling and experimental Simulations.. Published in Materials Today:

<https://www.sciencedirect.com/journal/materials-today-proceedings-ELSEVIER.Paper> published online

<https://doi.org/10.1016/j.matpr.2019.04.010> , Volume 13, Part 3, 2019, Pages 530-540, ISSN: 2214-7853,May 22,2019.

J15. J. Alsadi, Study on effect of dispersion and processing parameters in microscopically evaluated colour of plastic grade. PROCEEDINGS OF PPS-33 Editors :Octavio Manero and Fausto Calderas ,ISBN:978-0-7354-1882-0 ,Vol 2139, Issue 1 ,PP 2139-2155 ,Cancun, Mexico, Journal of American Institute of Physics (AIP publishing),2139, 110007 (2019); <https://doi.org/10.1063/1.5121682> Published Online: 26 August 2019

<https://aip-info.org/2FAM-1G5WM-9277UH-XGDUL-1/c.aspx>

<https://aip.scitation.org/doi/pdf/10.1063/1.5121682?download=true>

J16. J. Alsadi, Systematic review: Impact of Processing Parameters on Dispersion of Polycarbonate Composites, and Pigment Characterized by Different techniques . ELSEVIER -Materials Today: Proceedings, 27(4), 3254-3264.

ISSN: 2214-7853 ,<http://dx.doi.org/10.1016/j.matpr.2020.05.027>

J17. Jamal Alsadi, Analysis and Assessment For Rheological and Dispersions of Polymer Grade: Twin Screw, The 2nd International Conference on Industrial, Systems and Manufacturing Engineering (ISME'19) November/2019- Conference Proceedings .Jordan Engineers Association-Amman: Association, 2020, ISBN 978-9957-469-06-1, PP 74-84, The Hashemite kingdom of Jordan. The deposit Number at the National Library (2020/6/1646)- <http://jeaconf.org/ISME> .

<http://jeaconf.org/UploadedFiles/Document/624b1297-2d41-4f8f-a1f1-dbd6ab7b758e.pdf>

J18. J. Alsadi .The Ideal Temperature Setting of Polymer blends: Investigational characterization Effects of Color Matching. Submitted on January 26, 2021, Accepted paper via 2020 3<sup>rd</sup> International Conference on Mechanical Engineering and Power Engineering (MEPE 2020) ,presentation virtually was held in Naples, Italy on December 31, 2020. It is hosted in Conference Center of University of Naples Federico II, Italy.

J 19. J. Alsadi . Experimental Assessment of Pigment Dispersion in Compounding of Plastics: Rheological Characterization at the Crossover Points, Accepted on January 3, 2021 to: Materials today: Elsevier

<https://www.sciencedirect.com/science/article/pii/S2214785321000286>, published online , ISSN: 2214-7853,Volume 45, Part 8, 2021, Pages 7344-7351 ,June 11,2021

<https://authors.elsevier.com/a/1cbQW7tbNaJzrU>

J20. J.Alsadi. Analysis of Material Viscosity Variations: Mix Processing PC1/PC2 Composites, Turkish Online Journal of Qualitative Inquiry (TOJQI), ISSN-13096591, Volume 12, Issue 7, pp 9790–9803 ,September 16 ,2021

Publication link - <https://www.tojqi.net/index.php/journal/article/view/5467>

<https://www.tojqi.net/index.php/journal/article/view/5467/3896> .

J21. J.Alsadi , The Ideal Temperature Setting of Polymer Blends: Investigational Characterization Effects of Color Matching, published by IOP .: *Materials Science and Engineering, Mater. Sci. Eng.* Volume 1194 ,012003. ISSN-17578981, 1757899X .-H-INDEX-44-Previous issue. 8th International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2020) ,

published online-doi:10.1088/1757-899X/1194/1/012003, ,

<https://www.scimagojr.com/journalsearch.php?q=19700200831&tip=sid&clean=0>

J22. Alsadi, J.; Ismail, R.; Trrad, I. An Integrative Simulation for Mixing Different Polycarbonate Grades with the Same Color: Experimental Analysis and Evaluations. *MPDI-Crystals* 2022, 12, 423. ISSN 2073-4352

DOI: [10.3390/cryst12030423](https://doi.org/10.3390/cryst12030423)

J23. Alsadi, J., Tripathi, V., and Omoniyi, E. M (2022). Architecture Fibrous Meso-Porous Silica Spheres as Enhanced Adsorbent for Effective Capturing for CO2 Gas. In *Key Engineering Materials* (Vol. 928, pp. 39-44). Trans Tech Publications Ltd. (2022) <https://doi.org/10.4028/p-2f2o01>

- J24. Nayak, T., Simon, N., Alsadi, J., (2022). A Green Synthesized SnO<sub>2</sub> Photo-Catalyst for Effective Degradation of Biomedical Industrial Waste. In *Key Engineering Materials* (Vol. 928, pp. 27-32). Trans Tech Publications Ltd. (2022) <https://doi.org/10.4028/p-3s4yz3>
- J25. Shukla, S. K., Alsadi, J., Ismail, R. M. A., Al-Mattarneh, H., (2022). Facile Synthesis of Proficient Visible Light Active Photo-Catalyst for Degradation of Organic Industrial Waste Water. In *Advances in Science and Technology. International Conference on Recent Advancements in Biomedical Engineering*. Trans Tech Publications Ltd. (Volume 117) Pages:59-64 (2022) [https://doi.org/10.4028/p-n27ah6-ISBN\\_1662-0356](https://doi.org/10.4028/p-n27ah6-ISBN_1662-0356)
- J26. Alsadi, J., Hernandez, R. M., Hasham, S. H., . (2022). Critical Review on Recent Advancement in Nanotechnology for Biomedical Application. In *Advances in Science and Technology. International Conference on Recent Advancements in Biomedical Engineering*. Trans Tech Publications Ltd.(vol, 117),PP .25-32 (2022) <https://doi.org/10.4028/p-2rg620>
- J27. Alsad J., Ismail, R. M. A., Trrad, I., (2022). Effect of Processing Optimization on the Dispersion of Polycarbonate Red Dye on Compounded Plastics. In *Materials Science Forum* (Vol. 1068, pp. 129-138). Trans Tech Publications Ltd. (2022) <https://doi.org/10.4028/p-v5x00v>
- J28. Alsad J., Obaidat, M.T Ismail, R. M. A., Trrad, I., (2022) Box–Behnken Design for Polycarbonate-Pigment Blending: Applications and Characterization Techniques , *Polymers* 2022, 14(22), 4860; <https://doi.org/10.3390/polym14224860> (registering DOI)Submitted: 15 September 2022 Accepted: 7 November 2022 Published: 11 November 2022, <file:///C:/Users/Administrator/Downloads/polymers-14-04860.pdf> (Q1-Impact factor 5.6)
- J29. Ramji Kalidoss, **Jamal Alsadi** et al., Strategy for self cleaning solar panels, 202241013241 A., Indian Patent Journa. Part 1 - Page 269l. The Patent Office Journal No. 14/2022 Dated 08/04/2022. <https://search.ipindia.gov.in/IPOJournal/Journal/ViewJournal>
- J30. J. Alsadi, Designing efficient characterization technology of TGA and FTIR for compounding grade: Properties and design color selection. Research article-Published in *AIP - American Institute of Physics on, 2607, 050002 (May 2023) Volume 2607, Issue 1, ISSN 1551-7616* DOI: <https://doi.org/10.1063/5.0135789>
- J31-Rabah Ismail1\* , Hashem Al-Mattarneh2 , . Issam Trrad3 , . Jamal Alsadi4 , Marwa Aljama5 , Ayat Almarashdeh6 , DFaten Albtoush, **Determination of Petroleum Contamination of Soil Using Dielectric Method** , *TuijinJishu/Journal of Propulsion Technology* ISSN: 1001-4055 Vol. 44 No. 2 (2023)- [https://www.researchgate.net/profile/Hashem-Al-Mattarneh/publication/381118647\\_Determination\\_of\\_Petroleum\\_Contamination\\_of\\_Soil\\_Using\\_Dielectric\\_Method/inks/665df66e479366623a3d6d69/Determination-of-Petroleum-Contamination-of-Soil-Using-Dielectric-Method.pdf](https://www.researchgate.net/profile/Hashem-Al-Mattarneh/publication/381118647_Determination_of_Petroleum_Contamination_of_Soil_Using_Dielectric_Method/inks/665df66e479366623a3d6d69/Determination-of-Petroleum-Contamination-of-Soil-Using-Dielectric-Method.pdf) [In scholar](https://www.researchgate.net/publication/381118647_Determination_of_Petroleum_Contamination_of_Soil_Using_Dielectric_Method)
- J 32. Rabah Ismail , **Jamal Alsadi** , Randa Hatamleh3 . Employing CNN and black widow optimization for sustainable wastewater management in an environmental engineering context. [file:///C:/Users/Administrator/Downloads/Employing\\_CNN\\_and\\_black\\_widow\\_optimization\\_for\\_sus.pdf](file:///C:/Users/Administrator/Downloads/Employing_CNN_and_black_widow_optimization_for_sus.pdf) April 2024 -Asian Journal of Civil Engineering , Volume 25, Issue 3,pp1-16,-April 2024 DOI: 10.1007/s42107-024-01024-w Publisher :Springer International Publishing
- J 33. **Alsadi, J. et al.** Optimization of Execution Microscopic Extrusion Parameter Characterizations for Color Polycarbonate Grading: General Trend and Box–Behnken Designs. *Appl. Sci.* **2024**, 14(11), 4848. <https://doi.org/10.3390/app14114848>

J34 [Al-Mattarneh, Hashem](#) | Shareah, Uymyah Abu | [Ismail, Rabah](#) | Alsadi, Jamal | Albtoush, Faten | Tamimi, Mohammad, Enhancing the electromagnetic scattering properties of microwave absorption composite materials - file:///C:/Users/Administrator/Downloads/1571012274%20final.pdf

Accepted on ICT2024 conference accepted june ,2024

Materials Science, Engineering, Physics-2024 *IEEE 30th International Conference on Telecommunications (ICT) (2024)*, Amman, Jordan-[10.1109/ICT62760.2024.10606120](#)

J35. Alsad J, Evaluating Processing Parameter Effects on Polymer Grades and Plastic Coloring: Insights from Experimental Design and Characterization Studies. <https://doi.org/10.3390/polym16233409>  
*Polymers-MDPI-Accepted on 29 November published 3-Dec-2024, Quartile index-Q1, Polymer Composites and Nanocomposites-MDPI-Polymers 2024, 16(23), 3409,2024*

J36. [Jamal AlSadi](#) ,Exploring the Impact of Pigment Dilution Ratios on Processing Parameters in Plastic Compounding: Design of Experiments (DOE), Publication Year: 2024,Page(s):91 – 96, 2024 *IEEE 17th International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc)-2024*, Kuala Lumpur, Malaysia- 03 January 2025 DOI: <https://doi.org/10.1109/MCSoc64144.2024>  
Publisher: IEEE

J37- Faten Albtoush<sup>1</sup>, Rabah Ismail<sup>1</sup>, Jamal Alsadi<sup>2</sup>, Amer Al-Canaan<sup>2</sup> , Issam Trrad<sup>3</sup> , Faris Matakah<sup>4</sup>, Hashem Al-Mattarneh<sup>4(B)</sup> , and Ahmad B. Malkawi<sup>5</sup>  
Using Parallel Plate Electrode Engineering Techniques for Nondestructive Testing of Timber 3  
Renewable Energy Engineering Department, Jadara University, Irbid 21110, Jordan Selected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, ICMEN 2024, 28-29 September, Kuala Lumpur, Malaysia

J38- Alsad J, R. Ismail<sup>2</sup> , A Al-Canaan<sup>1</sup> , F. Albtoush<sup>2</sup>, M. Abuaddous<sup>3</sup>, H.Nimer<sup>3</sup>, I. Trrad<sup>4</sup> , and H. Al-Mattarneh<sup>3</sup>- Using Radio Wave Sensor for Assessment of Sustainable Road Pavement Incorporated Olive Waste Ash - Renewable Energy Engineering, Jadara University, Irbid 21163, Jordan In book: Selected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, ICMEN 2024, 28-29 September, Kuala Lumpur, Malaysia

J39- [Musab Abuaddous](#)<sup>1</sup>, [Rabah Ismail](#)<sup>2</sup> , [Faten Albtoush](#)<sup>2</sup>, [Issam Trrad](#)<sup>3</sup> ,[Hashem Al-Mattarneh](#)<sup>1(B)</sup> , [Amer Al-Canaan](#)<sup>4</sup> , [Jamal Alsadi](#)<sup>4</sup>, [Yaser Jaradat](#)<sup>1</sup>, and [Abdul-qader S. Abu Al Foul](#)<sup>5</sup>- Utilizing Biomass Olive Oil Waste Ash to Enhance Rutting Resistance of Asphalt Pavement Material –IEEE-2024 Selected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, ICMEN 2024, 28-29 September, Kuala Lumpur, Malaysia

J40- Issam Trrad<sup>1</sup> , Rabah Ismail<sup>2</sup>, Faten Albtoush<sup>2</sup>, Amer Al-Canaan<sup>3</sup> , Jamal Alsadi<sup>3</sup>, 5  
[Abdul-qader S. Abu Al Foul](#)<sup>4</sup>, [Mohanad Khodier](#)<sup>5</sup>, and [Hashem Al-Mattarneh](#)<sup>5(B)</sup> - Near and Far Field Radio and Microwave Sensors for Moisture Content Estimation in Concrete Material-IEEE-Malaysia-2024-IEEE-March 2025DOI:10.1007/978-981-96-3624-2\_24 Publisher: SpringerSelected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, ICMEN 2024, 28-29 September, Kuala Lumpur, Malaysia

J41- Amer Al-Canaan<sup>1</sup> , Rabah Ismail<sup>2</sup> , Faten Albtoush<sup>2</sup>, Jamal Alsadi<sup>1</sup>, [Abdul-qader S. Abu Al Foul](#)<sup>3</sup>, [Mohanad Khodier](#)<sup>4</sup>, [Musab Abuaddous](#)<sup>4</sup>, and [Hashem Al-Mattarneh](#)<sup>4(B)</sup>- In-Situ Dielectric Sensor for Soil Pollution Detection and Sustainable Development .Part of the book series: Springer Proceedings in Physics ((SPPHY, volume 421))- Conference paper First Online: 29 March 2025 pp 336–350-Selected Articles from the 8th International Conference on Materials Engineering and Nanotechnology, ICMEN 2024, 28-29 September, Kuala Lumpur, Malaysia -IEEE-Malaysia-2024

J42-Kiran Jasthi; Jamal Alsadi; K. Bagyalakshmi; Hashem Al-Mattarneh; Ravindrakumar Yadav; S. Sivakami , ANN-LSTM Controllers Based Novel Control of Multiple PVS-WPS-BESS Supplied Standalone System, Published in: 2024 International Conference on Sustainable Power & Energy (ICSPE)  
Date of Conference: 28-29 November 2024Date Added to IEEE *Xplore*: 21 March 2025

ISBN Information:DOI: 10.1109/ICSPE62629.2024.10924385Publisher: IEEEConference Location: Raigarh, India  
Published in: 2024 International Conference on Sustainable Power & Energy (ICSPE)  
Date of Conference: 28-29 November 2024  
Date Added to IEEE *Xplore*: 21 March 2025  
DOI: 10.1109/ICSPE62629.2024.10924385 ,Publisher: IEEEConference Location: Raigarh, India

J43- AlSadi, J, Simulating Polycarbonate Processing Interactions: A Comparative Study of RSM Design Techniques, IEEE International Conference on Mechatronics and Automation-IEEE ICMA 2025, August 3 -6, 2025, Beijing, China , DOI: 10.1109/ICMA65362.2025.11120839 , ISSN: 2152-7431 , Page(s):390 – 395, Published in: 2025 IEEE International Conference on Mechatronics and Automation (ICMA)

J44- AlSadi, J, Optimization and Simulation of Extrusion Parameters in Polymer Compounding: A Comparative Study Using BBD and 3LFFD, MDPI-Polymers 2025, 17(13), 1719;  
<https://doi.org/10.3390/polym17131719>

J45- Al Sadi. J, Data-Driven Modeling and Simulation for Optimizing Color in Polycarbonate: The Dominant Role of Processing Speed on Pigment Dispersion and Rheology, MDPI-Materials, 16 January 2026, 19(2), 366; <https://doi.org/10.3390/ma19020366>

Website: <https://www.mdpi.com/1996-1944/19/2/366>

PDF Version: <https://www.mdpi.com/1996-1944/19/2/366/pdf>

Manuscript: <https://www.mdpi.com/1996-1944/19/2/366/manuscript> (available to authors after login)

Special Issue: [https://www.mdpi.com/journal/materials/special\\_issues/KJ22L4V961](https://www.mdpi.com/journal/materials/special_issues/KJ22L4V961)

## PUBLICATIONS: CONFERENCE PAPERS

---

C1. Bourennani, F., AlSadi, J., Rizvi, G. M., and Ross, D. (2012) “Decision Tree Classifier for Analysis of Parameters Association Causing Polymer Color Mismatch,” Annual Technical Conference of the Society of Plastics Engineers (ANTEC), Orlando, Florida, USA, pp. 1-5.

C2. AlSadi, J., Rabbani, M., Ahmed, S., Rizvi, G., Clarke, R. and Ross, D., 2011, “Effect of Processing Parameters on Colour During Compounding,” Annual Technical Conference of the Society of Plastics Engineers (ANTEC), Boston, USA, pp. 1-4.

C2-Effects of processing parameters on colour during compounding

AlSadi, J., Rabbani, M., Ahmed, S., ... Clarke, R., Ross, D.

Annual Technical Conference - ANTEC, Conference Proceedings, 2011, 2, pp. 1197–1200

C3. Rabbani, M., AlSadi, J., Rizvi, G., Ahmed, S. and Ross, D., 2011, “Study on Effects of Various Parameters on Colours During Compounding of Plastics,” Annual Technical Conference of the Society of Plastics Engineers (ANTEC), Boston, USA, pp. 1-4.

Rabbani, M., AlSadi, J., Rizvi, G., Ahmed, S., Ross, D.

Society of Plastics Engineers - EUROTEC 2011 Conference Proceedings, 2011

C4. Rabbani, M. , AlSadi, J. , Rizvi, G. , D. Ross, and Ahmed S. , 2011, “Study on the Effects of Processing Parameters on Plastic Colours During Compounding Operations,“ Annual Technical Conference of Polymer Processing Society (PPS29), Marrakech, Morocco, pp. 1-4.

C5. Rabbani, M., AlSadi, J., Rizvi, G. , Ross, D. and Ahmed, S. , 2011, “Sensitivity of Colours in Compounding of Plastics to Minute Variations in Pigment Compositions,” Annual Technical Conference of the Polymer Processing Society,PPS-29, Marrakech, Morocco, pp. 1-6.

- C6-Rabbani, M., AlSadi, J., Rizvi, G., Ahmed, S., Ross, D. A study on effects of various parameters on colours during compounding of plastics-Annual Technical Conference - ANTEC, Conference Proceedings, 2011, 1, pp. 427–433
- C7. AlSadi, J. , Ahmad, S. , Saeed, U. , Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , 2012, “Effects of Processing Parameters on Color Mismatch During Compounding”, Annual Technical Conference of the Society of Plastics Engineers (ANTEC)”, Orlando, Florida, USA, pp. 1-5.
- C8. AlSadi, J. , Ahmad, S. , Saeed, U. , Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , 2012, “Execution of 3 level full factorial design to evaluate the process parameters: polymer color properties”, Annual Technical Conference of the Society of Plastics Engineers (ANTEC),Orlando, Florida, USA, pp. 1-5.  
Annual Technical Conference - ANTEC, Conference Proceedings, 2012, 1, pp. 341–345
- C9. Ahmad, S. , AlSadi, J. , Saeed, U. , Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , 2012, “Study on effect of Small Perturbations in Colour Formulation on Output Colour of Plastic Grade Compounded with Single Polycarbonate resin”, Annual Technical Conference of the Society of Plastics Engineers (ANTEC), Orlando, Florida, USA, pp. 1-5. Annual Technical Conference - ANTEC, Conference Proceedings, 2013, 2, pp. 1392–1396
- C10. Ahmad, S., AlSadi, J. , Saeed, U. , Rizvi, G. , Ross, D. and Clarke, R. , Effect Of Small Perturbations In Colour Formulation On Output Colour Of Plastic Grade Compounded With Two Polycarbonate Resins, in Annual Technical conference of the Society of Plastics Engineers (ANTEC), . Cincinnati, Ohio, USA. p. 1-5, 2013.
- C11. AlSadi, J. , Saeed, U. , Ahmad, S. Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , April 2012, “Effects of Processing Parameters on Colour Mismatch and Experimental Design to Optimize the Colour Properties of Polycarbonate,” Presenting at UOIT 3rd Annual Graduate Student Research Conference-Oshawa-Canada
- C11. AlSadi, J. , Saeed, U. , Ahmad, , S. Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , 2012, “Experimental Study to Investigate Effect Of process variables On Output Colour Of A compounded Plastic Grade, Annual Technical Conference of the Society of Plastics Engineers (SPE) - (ANTEC)”, Cincinnati, Ohio, USA, pp. 1-8. 1397 - 1404  
<https://chem.ckcest.cn/Proceeding/Details?id=193191>  
Annual Technical Conference - ANTEC, Conference Proceedings, 2013, 2, pp. 1397–1404
- C12. Saeed, U., Ahmad, S., AlSadi, J., Rizvi, G. and Ross, D., 2013, “IMPLEMENTATION OF NEURAL NETWORK FOR COLOR PROPOERTIES OF POLYCARBONATES,” Annual International Conference, Polymer Processing Society PPS-29, Nuremberg, Germany, 15 - 19 July 2013, S01-846, pp. 1-4.  
AIP Conference Proceedings, 2014, 1593, pp. 56–59
- C13. AlSadi, J., Saeed, U. , Rizvi, G. , Ross, D. , Clarke, R. and Price, J. , Effects of Rheological Behavior on Colour Matching of Two Polycarbonate Resin Blends. Annual Technical Conference of the Society of Plastics Engineers (ANTEC), Dubai, UAE, 2014
- C14. J. AlSadi , Effects of Processing parameters on color variation and evaluate pigment dispersion during the compounding grade of polycarbonate, Annual Technical Conference of the Society of Plastics Engineers SPE(ANTEC)”,California,Anaheim,USA,515-520,(2017).  
<https://pdfs.semanticscholar.org/f3d5/c6ac07cfb4289987eb60de2576c3cec10398.pdf>
- C15. J. AlSadi, A revised approach to rheological behavior and processing parameters of polycarbonate compound with dispersion, Annual technical conference of the SPE (ANTEC), Anaheim, California, PP. 249-255, (2017).  
<https://pdfs.semanticscholar.org/bf00/db0f7215410b8bae450f5baffc134c83b4b6.pdf>
- C16. J. AlSadi, Analytical study of dispersion and processing parameters on microscopically evaluated compounded polycarbonate, 33th International Conference of the Polymer Processing Society (PPS)-USA, submitted on September 2017, published on 14 December 2017 ,S10-518- ISBN: 978-1-5108-6330-9 ,Vol 2, S10 ,Cancun, Mexico,DEC,2017 ,SymposiaS10-518  
<http://toc.proceedings.com/39603webtoc.pdf>  
<http://www.ppsconferences.org/proceeding/default2.asp>  
<http://www.ppsconferences.org/proceeding/default2.asp?year=2017&idsymp=10&type=A&conf=0>
- C17. AlSadi, J Investigation of the effects of Formulation, process parameters, Dispersions, and Rheology, using combined Modelling and experimental simulations, 2nd International Conference on Material and Environmental Science (ICMES 2018 ©) sponser- Université Mohammed Premier - Oujda / Royaume du Maroc, abstract-ID:1276,paper accepted on January 16,2018.
- C18. Al-Sadi, J. Experimental Optimization: 3 Level Full Factorial Design and Variation of Processing Parameters for Polycarbonate Colors, ASET Conferences-Dubai-UAE, Paper submitted on January 7, 2018, accepted on January 20, 2018, presented on February 6, 2018 . <https://www.researchgate.net/publication/323257501>

C19. Jamal Al Sadi; Experimental optimization: Three Level full factorial design and variation of processing parameters for polycarbonate colors, Published in 2018 Advances in Science and Engineering Technology International Conferences (ASET), 6 Feb.-5 April 2018. Publisher: IEEE, Date Added to IEEE Xplore: 11 June 2018, ISBN: 978-1-5386-2399-2, DOI: 10.1109/ICASET.2018.8376879, 6 Feb, 2018 , Dubai, Sharjah, Abu Dhabi, UAE. <https://ieeexplore.ieee.org/document/8376879/>

C20. J. Alsadi “Materials Processing Issues and Experimental Study for Rheology and Dispersion of Polycarbonate Grades: Twin Screws design”. the-referenced manuscript has been accepted to the Second International Conference on Industrial, Systems & Manufacturing Engineering (ISME’19)” .arranged by, Jordan Engineers Association (JEA) and German Jordanian University (GJU), accepted on October 17, 2019, Presented on November 11-12, 2019, Amman - Jordan, Grand Hyatt Amman Hotel. <http://www.jeaconf.org/isme>

C21. J. Alsadi, Characterization of Polycarbonate-Using Thermogravimetric-Rheology Analysis” Accepted to the Annual technical conference of the SPE (ANTEC) on December 9 ,2019, San Antonio, Texas, March 29-April 1 (2020).presentation delivered on April 21,2020 online due to . <https://events.rdmobile.com/Lists/Index/1ac327d4-9c84-ea11-a9c2-e974b4ad3972>

The paper published under the (SPE) ANTEC 2020 .The Virtual edition of the Annual technical Conference for Plastic Professionals Conference Proceedings on <https://www.4spe.org/i4a/pages/index.cfm?pageID=5283>

[ppt https://www.4spe.org/i4a/pages/index.cfm?pageID=5440](https://www.4spe.org/i4a/pages/index.cfm?pageID=5440)

C22. J. Alsadi .The Idea l Temperature Setting of Polymer blends: Investigational characterization Effects of Color Matching. Accepted on September 9, 2020, Accepted conference paper via 2020 3<sup>rd</sup> International Conference on Mechanical Engineering and Power Engineering (MEPE 2020) ,presentation virtually was held in Naples, Italy on December 29-31, 2020. It is hosted in Conference Center of University of Naples Federico II, Italy.

Also I was acted as chair session for the above conference.

C23. J. Alsadi Experimental Assessment of Pigment Dispersion in Compounding of Plastics: Rheological Characterization at the Crossover Points , Accepted on July 29, 2020 Accepted conference paper via The Fourth International Conference on Materials and Environmental Science (ICMES2020) is organized by Mohammed Premier University ,presentation will be held via Virtual Conference – IRESEN, Faculty of Science, Oujda Morocco and the Association: Moroccan Center for Sciences Development -MoCeDeS.Oujda-Morocco, It is hosted in Conference Center of University of Mohammed Premier University, Research Institute for Solar Energy and new Energies Presented on November 28, 2020. Website: <http://www.mocedes.org/icmes2020/index.html>  
<http://www.mocedes.org/icmes2020/>

[https://www.youtube.com/watch?v=eux\\_pPXyKpQ&t=327s](https://www.youtube.com/watch?v=eux_pPXyKpQ&t=327s)

C24. J. Alsadi, Characterization Of Polycarbonate Blends: Executive Fourier Transform Infrared Spectroscopy (FTIR) Compared To Rheology, ” Submitted to the Annual technical conference of the SPE (ANTEC) on November 12 ,2020, ANTEC® 2021 , presented as a Hybrid Edition comprised of live, real-time remote and on-demand components , The paper has been approved by the review committee as a part on ANTEC 12-02-2021.presented on 26,November ,2020

[https://www.4spe.org/files/resource\\_library\\_files/OTL/ANTEC2021/Classic/ANTEC2021-Sadi.pdf](https://www.4spe.org/files/resource_library_files/OTL/ANTEC2021/Classic/ANTEC2021-Sadi.pdf)

<https://speevents.app.swapcard.com/event/antec-2021/planning/UGxhbm5pbmdfNDA4MTMz?>

C25.J.Alsadi , Analysis of Material Viscosity Variations: Mix Processing PC1/PC2 Composites, World Conference on Systems Engineering Research (WCSE-21), Kiev Ukraine, presented on 27th July 2021, full article submitted for conference proceedings on 28 july, 2021

C26. J.Alsadi , Impact Characterization Technology Of TGA And FT IR For Compounding Grade: Properties And Design Color Matching, 36th International Conference of the Polymer Processing Society (PPS)-USA, submitted on July 2021 poster Nos.- S04-475, Montreal, Canada

<https://share.polymtl.ca/alfresco/service/api/path/content;cm:content/workspace/SpacesStore/Company%20Home/Sites/conference-of-the-polymer-processing-society-web/documentLibrary/Program/2021-09-21%20Proceedings%20-%20List%20of%20Poster%20sans%20texte.pdf?guest=true>

C27. Jamal. AlSadi and Mohammed T. Obaidat , Executional Optimization Design of Extrusion Parameters for Color Grading Using factorial Surface Methodology and General Trends: Microscopic Characterizations ,International Conference on University Leaders ,Iraq-From 23-24/May/2022

C28. Jamal. AlSadi and Mohammed T. Obaidat , Application of Box-Behnken Design Experiments for the Blending of two Different Polycarbonate with Pigments: Characterization by Micro Ct Scanner and Spectrophotometer, ANM is a conference series on Advanced Nano Materials, Averio-Portugal, 27July-2022

C29-**AlSadi, J.** Exploring the Impact of Pigment Dilution Ratios on Processing Parameters in Plastic Compounding: Design of Experiments (DOE). In *Proceedings of the 2024 IEEE 17th International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoc)*, Kuala Lumpur, Malaysia, 2024; pp. 91–96. IEEE, 2024.

<https://doi.org/10.1109/MCSoc64144.2024> (accessed on 15 June 2025).

C30. Optimizing Extrusion parameters in Plastic Compounding ;A comparison of the Extrusion of 3-Level Full factorial and Box Behenkin Designs,International congress on inovotive Science &engineering Research for New Era-2024-Jadara University-2024

C31. J.Alsadi Investigation of the Effect of Processing Parameters on Colors when Two Different Grades are used with the Same Pigment Formulation,International conference on advanced materials (ICAM2025).Jordan University of science and Technology(JUST) 23 & 24 – 5 -2025

C32- AlSadi, J, Simulating Polycarbonate Processing Interactions: A Comparative Study of RSM Design Techniques, IEEE International Conference on Mechatronics and Automation-IEEE ICMA 2025, August 3 -6, 2025, Beijing, China , DOI: 10.1109/ICMA65362.2025.11120839 , ISSN: 2152-7431 , Page(s):390 – 395, Published in: 2025 IEEE International Conference on Mechatronics and Automation (ICMA)-2025

C33 AlSadi, J, Data Mining Selection of an Opaque Color Grade with Identical Pigmentation but Varying Resin Percentages: Impact of Processing Parameters on Pigment Distribution and Rheology,The international conference Humboldt-Kolleg-Sustainable Science Development :Transforming industries and Society-september 17-19 ,2025