

JAMAL ALSADI



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Google scholar: <https://scholar.google.com/citations?user=k16nyFAAAAJ&hl=en>

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BRIEF BIO

Dr. Alsadi holds Master's and Ph.D. degrees in Mechanical Engineering from Concordia University and the University of Ontario Institute of Technology (UOIT), Canada. I am currently an Associate professor since 2023 and the head of the department of renewable energy engineering(20221) .Assistant professor (2019-2023) at Jadara University,/ I am an Assistant Executive Dean since 2022, I am a member of the scientific research committee for the engineering department, a member of the Engineering College Council, a member of the Renewable energy engineering board, and Establishing and preparing lab equipment and course material for Renewable Energy Engineering, and a member of the scientific committee for Jordan Engineering Associations (JEA) for the middle east. I earned a Consultant Engineer (CE), Professional Degree at Jordan Engineering Association (JEA). “Consultant Engineer” is a professional rank that JEA awards and an Expert in Marine Engineering. Before that, a PhD- Assistant Professor since 2015 in the Faculty of Mechanical Engineering Technology at the Higher Colleges of Technology (2015-2019), Curriculum Development Committee Chair (CDCC) Track Coordinator and I was acting as a Marine Committee Chair and CDC Member & Co-Chair Maritime Engineering Technology and Naval Architecture Program Academic Council. . Before that, I was a teaching assistant and a researcher in UOIT (2008-2015). My research area is Material Engineering in SABIC-Canada (2008-2015). My research investigates scientific reasons causing a color mismatch in plastic compounds and studies the relationship among materials and processing parameters during compounding plastics such as Rheology and plastics processing, polymer blends, and material characterizations. I worked for a total of twenty-five years, in the areas of Research, Teaching approx.40 different courses, Mechanical Engineering, Marine Engineering, Naval, and Plastic Engineering. I have published approximately 60 articles in international journals and conference proceedings, and I am in the process of writing more research articles.

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 ⁺)	

AREA OF RESEARCH - Material Engineering and Manufacturing Technology

THESIS DESCRIPTION

Ph.D.: “My research area in polymer-SABIC-Canada (2008-2015). My research investigates of scientific reasons causing a color mismatch in plastic compounds and to study the relationship among materials and processing parameters during compounding of plastics such as Rheology and plastics processing, polymer blends and material characterizations”. This thesis is associated with practical and technological applications such as Color Mismatch in Compounding of Plastics includes Process Optimization through Designed Experiments to evaluate the process

parameters and color properties of a Compounded Polycarbonate Grade Employed by Design of Experiments (DOE), Neural Networks Modeling, Processing Issues and Rheological Effects. This work is a collaboration between UOIT and SABIC – Cobourg, Ontario Canada.

Experience in research especially rheological characterization, polymers and polycarbonate materials, characterization techniques, fabrication techniques and mechanical systems. Well conversant with DSC, DMA, DTA, TGA, Rheometer, SEM, Optical microscope, Micro CT Scanner, particle size analyzer, hydraulic hot press, Auto rotational microtome, FTIR and Raman Microscopy Proven skills in teaching especially structure and manufacturing, auto, and advanced materials engineering, characterization techniques, composites materials, and nanomaterial's.

M.Eng: *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

Associate Professor	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, Jordan Engineering Association (JEA). “Consultant Engineer” is a professional rank that JEA awards	From 2021-	To date
Assistant Professor, Head Department of Renewable Engineering <i>Jadara University, Irbid, Jordan</i>	From 2019	June 2023

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
Higher College of Technology, Abu Dhabi, United Arab Emirates

Oct 2015 – 31 Dec 2018/2019

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
University of Ontario Institute of Technology, Oshawa, Ontario, Canada

April 2008 – Aug 2015

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

- 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⁺.
- 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

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. Hydraulic Engineering- 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. Strength of materials-Jadara.Unv
33. Heat Transfer-Jadara Unv
34. Measuring instruments
35. Power Production
36. Power Conversion
37. Field Training
38. Graduate Project I+II
39. Workshop
40. Practical training
41. Energy economy and Efficiency

TEACHING GOALS

- 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

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

- 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

Scientific reasons causing a color mismatch in plastic compounds 2009 - 2012

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

- 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

- 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 | |

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2019-To date

CONFERENCES ORGANIZED

- Member and chair of the Scientific Committee August 20, 2018
- Advances in Science and Engineering Technology International Conferences (ASET), HCT* 2018
- Chair Session for MEPE-Italy conference* 31Dec2020
- Kenote Speaker for the Fourth International Conference on Materials and Environmental Science (ICMES)2020-2021

REVIEWER

- 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-2April-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-presnted 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-presnted 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, Avero-Portugal, July-2022

TRAINING COURSES

- 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/Al-Sadi_Jamal.pdf
- J8. K. Zouhri, J. Alsadi, L. Ferreira, M. Chkhalsouk, M. Shenneeb, O.A. Khondker, Y. Nimir, Numerical, method of the TiO₂ 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
- 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
- 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 3rd 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.tojq.net/index.php/journal/article/view/5467> <https://www.tojq.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 SnO₂ 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>

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>

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