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**Affiliation:** Department of Chemistrz  
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### Education

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| 2013 | <b>Doctor of Philosophy</b> , Chemistry, Technical University of Munich, Munich, Germany<br><i>Copolymerization of Propylene Oxide and CO<sub>2</sub> with Salen-type Catalysts; Polymerization Activities and Polymer Microstructure.</i> |
| 2005 | <b>Master of Science</b> , Chemistry, Jordan University, Amman, Jordan<br><i>Synthesis and Characterization of Palladium and Nickel Complexes with Some Phosphorus-Sulfur Ligands</i>  |
| 2000 | <b>Bachelor of Science</b> , Chemistry, Mutah University, Karak, Jordan  |

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### Research Experience

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| 2014-2020 | <b>Research Scientist</b> , Empa, St. Gallen, Switzerland |
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### Teaching Experience

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| 2000-now  | <b>Assistant Professor</b> , Al-Balqa Applied University, Salt, Jordan |
| 2013-2014 | <b>Part time lecturer</b> , Philadelphia University, Amman, Jordan     |
| 2013-2014 | <b>Part time lecturer</b> , Middle East University, Amman, Jordan      |

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### Awards and Special Achievements:

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| 2016 | <b>Team award through Empa Innovation Award, Switzerland</b> |
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## Recent Publications

- (1) Improving flame retardancy of in-situ silica-epoxy nanocomposites cured with aliphatic hardener: Combined effect of DOPO-based flame-retardant and melamine. Aurelio Bifulco, Dambarudhar Parida, **Khalifah A Salmeia**, Sandro Lehner, Rolf Stämpfli, Hilber Markus, Giulio Malucelli, Francesco Branda, Sabyasachi Gaan. *Composite Part C*. **2020**. doi.org/10.1016/j.jcomc.2020.100022
- (2) Fire and mechanical properties of DGEBA-based epoxy resin cured with a cycloaliphatic hardener: Combined action of silica, melamine and DOPO-derivative. Aurelio Bifulco, Dambarudhar Parida, **Khalifah A Salmeia**, Rashid Nazir, Sandro Lehner, Rolf Stämpfli, Hilber Markus, Giulio Malucelli, Francesco Branda, Sabyasachi Gaan. *Mater. Des.* **2020**, 193, 108862.
- (3) Structurally Tunable pH-responsive Phosphine Oxide Based Gels by Facile Synthesis Strategy. Rashid Nazir, Dambarudhar Parida, Anne Geraldine Guex, Daniel Rentsch, Afsaneh Zarei, Ali Gooneie, **Khalifah A Salmeia**, Kevin M Yar, Farzaneh Alihosseini, Amin Sadeghpour, Sabyasachi Gaan. *ACS Appl. Mater. Interfaces* **2020**, 12, 6, 7639–7649
- (4) Using the CODIT model to explain secondary metabolites of xylem in defence systems of temperate trees against decay fungi. Hugh Morris, Ari M Hietala, Steven Jansen, Javier Ribera, Sabine Rosner, **Khalifah A Salmeia**, Francis W M R Schwarze. *Annals of Botany*. **2020**, 125 (5), 701-720.
- (5) Michael addition in reactive extrusion: A facile sustainable route to developing phosphorus based flame retardant materials. Pietro Simonetti, Rashid Nazir, Ali Gooneie, Sandro Lehner, Milijana Jovic, **Khalifah A Salmeia**, Rudolf Hufenus, Alexandra Rippl, Jean-Pierre Kaiser, Cordula Hirsch, Bertran Rubi, Sabyasachi Gaan. *Compos. Part B Eng.* **2019**, 178, 107470
- (6) Comparative Analysis of Peat Fibre Properties and Peat Fibre-Based Knits Flammability. D Mikucioniene, L Cepukone, **Khalifah A. Salmeia**, S Gaan. *Autex Research Journal*. **2019**, 19 (2), 157-164.
- (7) Insight into the synthesis and characterization of organophosphorus-based bridged triazine compounds. **Khalifah A. Salmeia**,\* A Neels, D Parida, S Lehner, D Rentsch, S Gaan. *Molecules* **2019**, 24 (14), 2672. (\* Corresponding Authors).
- (8) Enhanced PET processing with organophosphorus additive: Flame retardant products with added value for recycling. Ali Gooneie, Pietro Simonetti, **Khalifah A. Salmeia**, Sabyasachi Gaan, Rudolf Hufenus, and Manfred P. Heuberger. *Polym. Degrad. Stab.* **2019**, 160, 218-228.

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## Conferences/ Workshops/ Seminars:

2019

Flame retardation of wood with novel triazine phosphonates. (**Flash Presentation Poster**), **Khalifah A. Salmeia** and Sabyasachi Gaan, Fire

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	Retrardant Polymeric Material ( <b>FRPM19</b> ), <b>26-28.06.2019</b> , Turku, FINLAND.
2018	Synthesis of Bridged Triazine Phosphonates and their Application, ( <b>oral presentation</b> ), <b>Khalifah A. Salmeia</b> , the 22nd International Conference on Phosphorus Chemistry, <b>8-13.07.2018</b> , Budapest, HUNGARY
2017	Effect of the Structure of Phosphorus Compounds on Flame Retardancy of Cellulose-Based Fibers. ( <b>Flash Presentation Poster</b> ), <b>Khalifah A. Salmeia</b> , Miljana Jovic, Audrone Ragaisiene, Zaneta Rukuiziene, Daiva Mikucioniene, Rimvydas Milasius and Sabyasachi Gaan, Fire Retrardant Polymeric Material ( <b>FRPM17</b> ), <b>03-06.07.2017</b> , Manchester, UK

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### Research Grants

2019	Innosuisse research fund (amount: CHF 748k), Switzerland.
2017	CTI research fund (amount: CHF 400k), Switzerland.
2016	SATW research fund (amount: CHF 15k), Switzerland
2015	COST MP1105 research grant, University of central Lancashire, UK
2014	COST MP1105 Training School/Bolton, UK.

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