

# Joanna Ortyl

<https://publons.com/researcher/AAC-4884-2021/>

Web of Science ResearcherID: AAC-4884-2021

## Current affiliations:

- Cracow University of Technology / Politechnika Krakowska from 2007 until present
- Cracow University of Technology / Politechnika Krakowska from 2012 until present

## Publications

### PUBLICATION METRICS

For all time

TOTAL TIMES CITED

663

H-INDEX

17

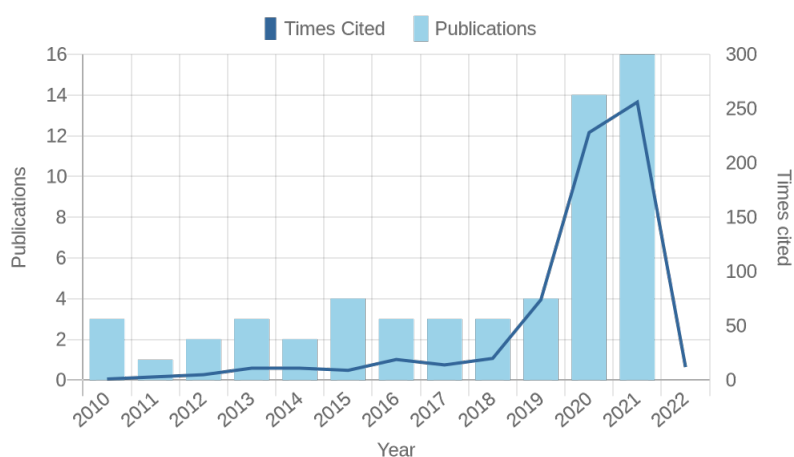
PUBLICATIONS

65

WEB OF SCIENCE DOCUMENTS

58

### PUBLICATION IMPACT OVER TIME



### PUBLISHING SUMMARY

(8) Polymer Chemistry	WOS	(7) Polymer Testing	WOS
(6) European Polymer Journal	WOS	(5) Przemysl Chemiczny	WOS
(3) RSC Advances	WOS	(3) Catalysts	WOS
(2) Macromolecular Chemistry and Physics	WOS	(2) Journal of Applied Polymer Science	WOS

(2) Polymers	WOS	(2) Materials	WOS
(2) Sensors	WOS	(2) International Journal of Molecular Scie...	WOS
(2) CHEMIK		(2) Polish Journal of Chemical Technology	WOS
(2) Polimery	WOS	(2) Proceedings	
(1) Spectrochimica Acta Part A: Molecular ...	WOS	(1) Analyst	WOS
(1) Sensors and Actuators B: Chemical	WOS	(1) RSC Polymer Chemistry Series	
(1) Journal of Polymer Science, Part A: Polymer C...		(1) Ampere	
(1) Polimery/Polymers		(1) Measurement	WOS
(1) Macromolecules	WOS	(1) Progress in Organic Coatings	WOS
(1) ACS Applied Polymer Materials	WOS	(1) Additive Manufacturing	WOS
(1) International Electronic Conference on Synthet...			

#### MANUSCRIPTS PUBLISHED (65)

#### TIMES CITED (ALL TIME)

Development of the first panchromatic BODIPY-based one-component  
iodonium salts for initiating the photopolymerization processes

Published: Dec 2021 in Polymer Chemistry

DOI: 10.1039/D1PY01263K

0

Visible light-induced photopolymerization of Deep Eutectic Monomers, based  
on methacrylic acid and tetrabutylammonium salts with different anion  
structures

Published: Dec 2021 in European Polymer Journal

DOI: 10.1016/J.EURPOLYMJ.2021.110836

0

Harnessing light to create functional, three-dimensional polymeric materials:  
multitasking initiation systems as the critical key to success

Published: Dec 2021 in Additive Manufacturing

DOI: 10.1016/J.ADDMA.2021.102447

0

Visible-Light Amine Thioxanthone Derivatives as Photoredox Catalysts for  
Photopolymerization Processes

Published: Nov 2021 in ACS Applied Polymer Materials

DOI: 10.1021/ACSAPM.1C00886

0

Non-destructive visual inspection of photocurable coatings based on  
fluorescent response of naked-eye visible colorimetric and fluorescent sensors

Published: Nov 2021 in European Polymer Journal

DOI: 10.1016/J.EURPOLYMJ.2021.110802

0

- Emerging waste-free non-destructive system based on molecular sensors originating from novel europium complexes for in-situ determination of polymer coating thickness 0  
Published: Nov 2021 in Progress in Organic Coatings  
DOI: 10.1016/J.PORGCOAT.2021.106527
- Water-Soluble Photoinitiators from Dimethylamino-Substituted Monoacylphosphine Oxide for Hydrogel and Latex Preparation 0  
Published: Oct 2021 in Macromolecular Chemistry and Physics  
DOI: 10.1002/MACP.202100217
- Photoinitiating systems and kinetics of frontal photopolymerization processes - the prospects for efficient preparation of composites and thick 3D structures 0  
Published: Aug 2021 in Polymer Chemistry  
DOI: 10.1039/D1PY00596K
- One-Component Cationic Photoinitiators from Tunable Benzylidene Scaffolds for 3D Printing Applications 0  
Published: Aug 2021 in Macromolecules  
DOI: 10.1021/ACS.MACROMOL.1C01048
- Difunctional 1H-quinolin-2-ones as spectroscopic fluorescent probes for real-time monitoring of photopolymerisation process and photosensitizers of fluorescent photopolymer resin in 3D printing 1  
Published: Aug 2021 in European Polymer Journal  
DOI: 10.1016/J.EURPOLYMJ.2021.110612
- Beneficial stilbene-based derivatives: From the synthesis of new catalytic photosensitizer to 3D printouts and fiber-reinforced composites 3  
Published: Aug 2021 in European Polymer Journal  
DOI: 10.1016/J.EURPOLYMJ.2021.110603
- Quantitative interpretation of the response of Solvent-Quenched Pressure Sensitive Paints (SQ-PSPs) to pressure 1  
Published: Jun 2021 in Measurement  
DOI: 10.1016/J.MEASUREMENT.2021.109233
- Pyrylium salt as a visible-light-induced photoredox catalyst for polymer and organic synthesis - Perspectives on catalyst design and performance 5  
Published: May 2021 in European Polymer Journal  
DOI: 10.1016/J.EURPOLYMJ.2021.110365
- Fluorescence assay for the determination of glutathione based on a ring-fused 2-pyridone derivative in dietary supplements 3  
Published: Mar 2021 in Analyst  
DOI: 10.1039/D0AN02245D

- Selective Cytotoxicity of Complexes with N,N,N-Donor Dipodal Ligand in Tumor Cells 1  
Published: Feb 2021 in International Journal of Molecular Sciences  
DOI: 10.3390/IJMS22041802
- New horizons for carbon dots: quantum nano-photoinitiating catalysts for cationic photopolymerization and three-dimensional (3D) printing under visible light 2  
Published: 2021 in Polymer Chemistry  
DOI: 10.1039/D1PY00228G
- Phytochemical Molecules from the Decarboxylation of Gomphrenins in Violet Gomphrena globosa L.-Floral Infusions from Functional Food 0  
Published: Nov 2020 in International Journal of Molecular Sciences  
DOI: 10.3390/IJMS21228834
- Moving Towards a Finer Way of Light-Cured Resin-Based Restorative Dental Materials: Recent Advances in Photoinitiating Systems Based on Iodonium Salts 9  
Published: Sep 2020 in Materials  
DOI: 10.3390/MA13184093
- Multifunctional biphenyl derivatives as photosensitisers in various types of photopolymerization processes, including IPN formation, 3D printing of photocurable multiwalled carbon nanotubes (MWCNTs) fluorescent composites 9  
Published: Aug 2020 in RSC Advances  
DOI: 10.1039/D0RA04146G
- One-component cationic photoinitiators based on coumarin scaffold iodonium salts as highly sensitive photoacid generators for 3D printing IPN photopolymers under visible LED sources 12  
Published: Aug 2020 in Polymer Chemistry  
DOI: 10.1039/D0PY00677G
- Thioxanthone Derivatives as a New Class of Organic Photocatalysts for Photopolymerisation Processes and the 3D Printing of Photocurable Resins under Visible Light 8  
Published: Aug 2020 in Catalysts  
DOI: 10.3390/CATAL10080903
- Photoinitiator-catalyst systems based on meta-terphenyl derivatives as photosensitisers of iodonium and thianthrenium salts for visible photopolymerization in 3D printing processes 13  
Published: Jul 2020 in Polymer Chemistry  
DOI: 10.1039/D0PY00597E

- A New Approach to Micromachining: High-Precision and Innovative Additive Manufacturing Solutions Based on Photopolymerization Technology **17**  
Published: Jul 2020 in Materials  
DOI: 10.3390/MA13132951
- Double Role of Diphenylpyridine Derivatives as Fluorescent Sensors for Monitoring Photopolymerization and the Determination of the Efficiencies of the Generation of Superacids by Cationic Photoinitiators **4**  
Published: Jun 2020 in Sensors  
DOI: 10.3390/S20113043
- Water-Soluble Photoinitiators in Biomedical Applications **35**  
Published: May 2020 in Polymers  
DOI: 10.3390/POLYM12051073
- Photochemical Study of a New Bimolecular Photoinitiating System for Vat Photopolymerization 3D Printing Techniques under Visible Light **15**  
Published: Mar 2020 in Catalysts  
DOI: 10.3390/CATAL10030284
- New, highly versatile bimolecular photoinitiating systems for free-radical, cationic and thiol-ene photopolymerization processes under low light intensity UV and visible LEDs for 3D printing application **14**  
Published: Feb 2020 in RSC Advances  
DOI: 10.1039/C9RA10212D
- Europium-based luminescent sensors for mapping pressure distribution on surfaces **8**  
Published: Feb 2020 in Sensors and Actuators B: Chemical  
DOI: 10.1016/J.SNB.2019.127409
- New bimolecular photoinitiating systems based on terphenyl derivatives as highly efficient photosensitizers for 3D printing application **27**  
Published: Jan 2020 in Polymer Chemistry  
DOI: 10.1039/C9PY01551E
- New versatile bimolecular photoinitiating systems based on amino-m-terphenyl derivatives for cationic, free-radical and thiol-ene photopolymerization under low intensity UV-A and visible light sources **14**  
Published: Jan 2020 in Polymer Chemistry  
DOI: 10.1039/C9PY01091B
- Applicability of 1,6-Diphenylquinolin-2-one Derivatives as Fluorescent Sensors for Monitoring the Progress of Photopolymerisation Processes and as Photosensitisers for Bimolecular Photoinitiating Systems **8**  
Published: Nov 2019 in Polymers  
DOI: 10.3390/POLYM11111756

Development of New High-Performance Biphenyl and Terphenyl Derivatives as Versatile Photoredox Photoinitiating Systems and Their Applications in 3D Printing Photopolymerization Processes **11**

Published: Oct 2019 in Catalysts  
DOI: 10.3390/CATAL9100827

MICROWAVE-ASSISTED SYNTHESIS AND SPECTROSCOPIC PROPERTIES OF NOVEL PYRIDINE-BASED FLUORESCENT MOLECULAR PROBES

Published: Sep 2019 in Ampere  
DOI: 10.4995/AMPERE2019.2019.9829

Mechanism of interaction of aminocoumarins with reaction medium during cationic photopolymerization of triethylene glycol divinyl ether **13**

Published: Jul 2019 in European Polymer Journal  
DOI: 10.1016/J.EURPOLYMJ.2019.03.060

The Applicability of 2-amino-4,6-diphenyl-pyridine-3-carbonitrile Sensors for Monitoring Different Types of Photopolymerization Processes and Acceleration of Cationic and Free-Radical Photopolymerization Under Near UV Light **12**

Published: Apr 2019 in Sensors  
DOI: 10.3390/S19071668

Applicability of samarium(III) complexes for the role of luminescent molecular sensors for monitoring progress of photopolymerization processes and control of the thickness of polymer coatings **11**

Published: Jun 2018 in Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy  
DOI: 10.1016/J.SAA.2018.03.050

Photopolymerization of hybrid monomers, Part II: Determination of relative quantum efficiency of selected photoinitiators in cationic and free-radical polymerization of hybrid monomers **22**

Published: May 2018 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2018.02.025

Cationic Photoinitiators **6**

Published: 2018 in RSC Polymer Chemistry Series

Luminescent Molecular Chemosensors for Rapid and Nondestructive Detection of Thickness of Polymer Coatings

Published: Dec 2017 in Proceedings  
DOI: 10.3390/PROCEEDINGS1080850

New Fluorescent Molecular Probes for Monitoring of Very Fast Photopolymerization Processes of Monomers

Published: Dec 2017 in Proceedings  
DOI: 10.3390/PROCEEDINGS1080851

- Photopolymerization of hybrid monomers Part I: Comparison of the performance of selected photoinitiators in cationic and free-radical polymerization of hybrid monomers 38  
Published: Dec 2017 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2017.10.020
- Squarylium dye and onium salts as highly sensitive photoradical generators for blue light 27  
Published: Jun 2017 in Polymer Chemistry  
DOI: 10.1039/C7PY00621G
- New kinetic and mechanistic aspects of photosensitization of iodonium salts in photopolymerization of acrylates 30  
Published: 2017 in RSC Advances  
DOI: 10.1039/C7RA05978G
- Spectroscopic study of applicability of imidazo[1,2-a]pyridines for monitoring photopolymerization processes by fluorescence probe technique 1  
Published: Oct 2016 in Przemysl Chemiczny  
DOI: 10.15199/62.2016.10.48
- Mechanism of interaction of coumarin-based fluorescent molecular probes with polymerizing medium during free radical polymerization of a monomer 22  
Published: Oct 2016 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2016.09.013
- Meta-Terphenyl Derivative/ Iodonium Salt/9H-Carbazole-9-ethanol Photoinitiating Systems for Free Radical Promoted Cationic Polymerization upon Visible Lights 25  
Published: Sep 2016 in Macromolecular Chemistry and Physics  
DOI: 10.1002/MACP.201600224
- Specific cationic photoinitiators for near UV and visible LEDs: Iodonium versus ferrocenium structures 41  
Published: Dec 2015 in Journal of Applied Polymer Science  
DOI: 10.1002/APP.42759
- Relative sensitization efficiency of fluorescent probes/sensitizers for monitoring and acceleration of cationic photopolymerization of monomers 21  
Published: Dec 2015 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2015.10.006
- Applicability of quinolizino-coumarins for monitoring free radical photopolymerization by fluorescence spectroscopy 20  
Published: Apr 2015 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2014.12.013
- Synthesis of derivatives of hydroxy-2H-1-benzopyran-2-one using microwave-assisted and conventional heating methods  
Published: 2015 in CHEMIK

- Synthesis of derivatives of hydroxy-2H-1-benzopyran-2- one using microwave-assisted and conventional heating methods 0  
Published: 2015 in CHEMIK
- Application of a carbazole derivative as a spectroscopic fluorescent probe for real time monitoring of cationic photopolymerization 16  
Published: Mar 2014 in Polish Journal of Chemical Technology  
DOI: 10.2478/PJCT-2014-0013
- Application of aminocoumarins for the role of fluorescent molecular probe of cationic photopolymerization process 0  
Published: 2014 in International Electronic Conference on Synthetic Organic Chemistry
- Applicability of aminophthalimide probes for monitoring and acceleration of cationic photopolymerization of epoxides 22  
Published: Jun 2013 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2013.03.009
- The performance of 7-hydroxycoumarin-3-carbonitrile and 7-hydroxycoumarin-3-carboxylic acid as fluorescent probes for monitoring of cationic photopolymerization processes by FPT 23  
Published: May 2013 in Journal of Applied Polymer Science  
DOI: 10.1002/APP.38378
- Acrylic pressure-sensitive adhesives containing SiO<sub>2</sub> nanoparticles 16  
Published: Mar 2013 in Polish Journal of Chemical Technology  
DOI: 10.2478/PJCT-2013-0003
- New photoinitiators for cationic polymerization 23  
Published: Jul 2012 in Polimery  
DOI: 10.14314/POLIMERY.2012.510
- Aminophthalimide probes for monitoring of cationic photopolymerization by fluorescence probe technology and their effect on the polymerization kinetics 18  
Published: May 2012 in Polymer Testing  
DOI: 10.1016/J.POLYMERTESTING.2012.01.008
- Mechanism of Coumarin 1 probe response in fluorescence probe technology (FPT) 4  
Published: Jul 2011 in Przemysl Chemiczny
- Mechanism of Coumarin 1 probe response in fluorescence probe technology (FPT), Mechanizm działania sondy fluorescencyjnej Coumarin 1 w technologii FPT 7  
Published: 2011 in Przemysl Chemiczny
- Monitoring of cationic photopolymerization with stilbene derivatives as fluorescent probes 7  
Published: Dec 2010 in Przemysl Chemiczny



## Performance of Amidocoumarins as Probes for Monitoring of Cationic Photopolymerization of Monomers by Fluorescence Probe Technology

Published: Sep 2010 in Journal of Polymer Science, Part A: Polymer Chemistry  
DOI: 10.1002/POLA.24243

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## APPLICABILITY OF 7-HYDROXY-4-METHYLCOUMARIN FOR CURE MONITORING AND MARKING OF EPOXY RESINS

Published: Jul 2010 in Polimery  
DOI: 10.14314/POLIMERY.2010.539

6

Applicability of 7-hydroxy-4-methylcoumarin for cure monitoring and marking of epoxy resins, Ocena przydatności 7-hydroksy-4-metylokumaryny do monitorowania procesów utwardzania oraz znakowania żywic epoksydowych

Published: 2010 in Polimery/Polymers

Monitoring of cationic photopolymerization with stilbene derivatives as fluorescent probes, Monitorowanie przebiegu fotopolimeryzacji kationiowej przy użyciu pochodnych stilbenu jako sond fluorescencyjnych

Published: 2010 in Przemysł Chemiczny

## Verified reviews

### REVIEWER SUMMARY

(24) Polymers	WOS	(15) International Journal of Molecular Sci...	WOS
(14) Materials	WOS	(12) Catalysts	WOS
(9) Polymer Chemistry	WOS	(3) Journal of Applied Polymer Science	WOS
(3) Applied Sciences	WOS	(3) Sensors	WOS
(2) Materials Research Express	WOS	(2) Nanoscale	WOS
(1) Polymers for Advanced Technologies	WOS	(1) Chemical Papers	WOS
(1) Pharmaceutics	WOS	(1) Spectrochimica Acta Part A: Molecular ...	WOS