

## Prof. FABIENNE DUMOULIN

### Personal Information

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### International Researcher IDs

ScholarID: VbKi5soAAAAJ

ORCID: 0000-0002-0388-8338

Publons / Web Of Science ResearcherID: AAA-9838-2019

### Education Information

Doctorate, Universite Lyon 1, France 1999 - 2002

Postgraduate, Universite Lyon 1, France 1998 - 1999

Undergraduate, Universite Lyon 1, France 1994 - 1998

### Dissertations

Doctorate, Synthesis of neoglycolipids and study of their self-assembling properties, Universite Lyon 1, 2002

Postgraduate, Synthese d'analogues de glycosylceramides, Universite Lyon 1, 1999

### Research Areas

Chemistry

### Academic and Administrative Experience

Rectorate Commissioner, Acibadem Mehmet Ali Aydinlar University, 2023 - Continues

Fakülte Kurulu Üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2021 - Continues

Stratejik Plan Komisyonu, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2021 - Continues

Erasmus Program Department Coordinator, Acibadem Mehmet Ali Aydinlar University, Graduate School Of Natural And Applied Sciences, 2021 - Continues

Erasmus Program Department Coordinator, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2021 - Continues

Ölçme Değerlendirme Kurulu üyesi, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, 2021 - 2023

### Courses

## Doctorate

Tez, Doctorate, 2024 - 2025

Tez, Doctorate, 2024 - 2025

Seminer, Doctorate, 2023 - 2024

Seminar, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Photosensitisers for PDT, Doctorate, 2023 - 2024, 2021 - 2022, 2020 - 2021

Tez, Doctorate, 2022 - 2023

## Postgraduate

Photosensitisers for PDT, Postgraduate, 2024 - 2025, 2020 - 2021

Seminer, Postgraduate, 2023 - 2024

Photosensitisers for PDT, Postgraduate, 2023 - 2024

Tez, Postgraduate, 2022 - 2023

Designing PHOTSENSITIZERS with improved efficiency, Postgraduate, 2023 - 2024

Seminar, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

## Undergraduate

Organic Chemistry, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Basic Chemistry II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Organic Chemistry , Undergraduate, 2020 - 2021

## Associate Degree

Solucan Gübrelemesine Bilimsel ve Deneysel Yaklaşım, Associate Degree, 2024 - 2025, 2023 - 2024

## Supervised Theses

Dumoulin F., Photodynamic therapy, Doctorate, D.Sipahioğlu(Student), Continues

Dumoulin F., Porphyrinoid-based photosensitizing polymeric scaffolds for antimicrobial photodynamic therapy, Doctorate, Z.Ulupinar(Student), Continues

Dumoulin F., Phthalocyanines..., Postgraduate, A.Karayel(Student), 2023

Tazebay U. H., Dumoulin F., PHOTODYNAMIC THERAPY EFFECTS OF NIR-ABSORBING NOVEL PHTHALOCYANINES, Doctorate, E.Gazel(Student), 2022

## Jury Memberships

Award, MRSC, Royal Society of Chemistry, November, 2023

Post Graduate, Post Graduate, Acıbadem Mehmet Ali Aydınlar Üniversitesi, June, 2023

Doctorate, Doctorate, POLITECHNIKA WROCŁAWSKA, December, 2022

Doctorate, Doctorate, Université de Limoges, October, 2022

Post Graduate, Post Graduate, Pamukkale Üniversitesi, June, 2022

Doctorate, Doctorate, Universiteit van Amsterdam, January, 2022

Doctorate, Doctorate, Université Montpellier I, December, 2021

Doctorate, Doctorate, Université de Limoges, September, 2021

Doctorate, Doctorate, Ecole Nationale Supérieure de Chimie de Clermont-Ferrand, June, 2021

Doctorate, Doctorate, University of KwaZulu-Natal, February, 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

1. Alkylthio-tetrasubstituted Lu(III) phthalocyanines: Effect of the substituent bulkiness and length on their photophysical, photochemical, electrochemical and sensing properties

Albakour M., Celik G. G., Yaseen A. N., Sen Z., DUMOULIN F., Harbeck M., Isci U., Gurek A. G.

JOURNAL OF MOLECULAR STRUCTURE, vol.1325, 2025 (SCI-Expanded)

- II.  **$\mu$ -nitrido diiron phthalocyanines: Electron-withdrawing vs electron-donating substituent effect on oxidation reaction catalysis**  
Eren O., ŞAHİN Z., DUMOULIN F., İŞÇİ Ü.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.28, no.11N12, pp.806-813, 2024 (SCI-Expanded)
- III. **Amphiphilic Single-Chain Polymer Nanoparticles as Imaging and Far-Red Photokilling Agents for Photodynamic Therapy in Zebrafish Embryo Xenografts**  
Arena D., Nguyen C., Ali L. M. A., Verde-Sesto E., Iturrospe A., Arbe A., İŞÇİ Ü., ŞAHİN Z., DUMOULIN F., Gary-Bobo M., et al.  
ADVANCED HEALTHCARE MATERIALS, vol.13, no.28, 2024 (SCI-Expanded)
- IV. **Synthesis, Photo-Characterizations, and Pre-Clinical Studies on Advanced Cellular and Animal Models of Zinc(II) and Platinum(II) Sulfonyl-Substituted Phthalocyanines for Enhanced Vascular-Targeted Photodynamic Therapy**  
Repetowski P., Warszynska M., Kostecka A., Pucelik B., Barzowska A., EMAMI A., İŞÇİ Ü., DUMOULIN F., Dabrowski J. M.  
ACS APPLIED MATERIALS & INTERFACES, vol.16, no.37, pp.48937-48954, 2024 (SCI-Expanded)
- V. **Introduction to the <i>RSC Advances</i> Emerging Investigators Series 2023**  
DUMOULIN F., Nakagaki S.  
RSC ADVANCES, vol.14, no.37, pp.26911-26912, 2024 (SCI-Expanded)
- VI. **Nanoencapsulation of a Far-Red Absorbing Phthalocyanine into Poly(benzylmalate) Biopolymers and Modulation of Their Photodynamic Efficiency**  
ŞAHİN Z., O'nal E., Ali L. M. A., Durand D., EMAMI A., Toure M., İŞÇİ Ü., Gary-Bobo M., Cammas-Marion S., DUMOULIN F.  
BIOMACROMOLECULES, vol.25, no.6, pp.3261-3270, 2024 (SCI-Expanded)
- VII. **Phthalocyanine vs porphyrin: Experimental and theoretical comparison of the catalytic activity of N-bridged diiron tetrapyrrolic complexes for alcohols oxidation**  
ŞAHİN Z., Yuceel C., Yildiz D. B., DEDE Y., DUMOULIN F., İŞÇİ Ü.  
MOLECULAR CATALYSIS, vol.559, 2024 (SCI-Expanded)
- VIII. **Perspectives in the treatment of antibiotic-resistant bacterial infections with active photodynamic partners within the framework of the EURESTOP COST Action (CA21145)**  
Mori M., DUMOULIN F., Faustino M. A. F., Plaetzer K.  
PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES, no.4, pp.815-817, 2024 (SCI-Expanded)
- IX. **Near infrared-absorbing self-encapsulated phthalocyanine-cored polycaprolactone star polymeric nanoparticles**  
Yaseen A. N., EMAMI A., Ben Aziza H., DANDAN DOĞANCI M., İŞÇİ Ü., Gurek A. G., DOĞANCI E., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.28, no.02, pp.107-113, 2024 (SCI-Expanded)
- X. **Multifunctional Photovoltaic Window Layers for Solar-Driven Catalytic Conversion of CO<sub>2</sub>: The Case of CIGS Solar Cells**  
Guerrero J., Bajard E., Schneider N., DUMOULIN F., Lincot D., İŞÇİ Ü., Robert M., Naghavi N.  
ACS ENERGY LETTERS, vol.8, no.8, pp.3488-3493, 2023 (SCI-Expanded)
- XI. **Comparing PVP and Polymeric Micellar Formulations of a PEGylated Photosensitizing Phthalocyanine by NMR and Optical Techniques**  
Gergely L. P., Yuceel C., İŞÇİ Ü., Spadin F. S., Schneider L., Spingler B., Frenz M., DUMOULIN F., Vermathen M.  
MOLECULAR PHARMACEUTICS, vol.20, no.8, pp.4165-4183, 2023 (SCI-Expanded)
- XII. **Quantum-Classical Protocol for Efficient Characterization of Absorption Lineshape and Fluorescence Quenching upon Aggregation: The Case of Zinc Phthalocyanine Dyes**  
Aarabi M., Aranda D., Gholami S., Meena S. K., Lerouge F., Bretonniere Y., Gurol I., Baldeck P., Parola S., DUMOULIN F., et al.  
JOURNAL OF CHEMICAL THEORY AND COMPUTATION, no.17, pp.5938-5957, 2023 (SCI-Expanded)
- XIII. **Introduction to the <i>RSC Advances</i> Emerging Investigators Series 2022**  
DUMOULIN F., Nakagaki S.

RSC ADVANCES, vol.13, no.28, pp.19011-19012, 2023 (SCI-Expanded)

- XIV. **Transparent Porous ZnO|Metal Complex Nanostructured Materials: Application to Electrocatalytic CO<sub>2</sub> Reduction**  
Guerrero J., Schneider N., DUMOULIN F., Lincot D., İŞÇİ Ü., Naghavi N., Robert M.  
ACS APPLIED NANO MATERIALS, no.12, pp.10626-10635, 2023 (SCI-Expanded)
- XV. **Supramolecular and base-induced singlet oxygen generation enhancement of a water-soluble phthalocyanine**  
Smith S. M., Abelha T. F., Limon D., Samperi M., Sharma B., Plaetzer K., DUMOULIN F., Amabilino D. B., Perez-Garcia L.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.27, no.1, pp.434-443, 2023 (SCI-Expanded)
- XVI. **Synthetic strategies towards functionalized N-bridged  $\mu$ -nitrido diiron porphyrin complexes**  
Eren O., DUMOULIN F., İŞÇİ Ü.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, no.1, pp.501-508, 2023 (SCI-Expanded)
- XVII. **Phthalocyanines prepared from 4,5-dihexylthiophthalonitrile, a popular building block**  
TOPKAYA TAŞKIRAN D., ŞAHİN Z., İŞÇİ Ü., İsci F.  
TURKISH JOURNAL OF CHEMISTRY, no.5, pp.814-837, 2023 (SCI-Expanded)
- XVIII. **Tetra vs. octa-How it affects the photophysical, photochemical, physicochemical and biological properties of mercaptophenol-substituted Zn phthalocyanines**  
TOPKAYA TAŞKIRAN D., Aydin D., Ben Aziza H., ŞAHİN Z., İsci U., Durand D., Tazebay U. H., Gary-Bobo M., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.26, no.11, pp.701-707, 2022 (SCI-Expanded)
- XIX. **Far-red triplet sensitized Z-to-E photoswitching of azobenzene in bioplastics**  
Bharmoria P., Ghasemi S., Edhborg F., Losantos R., Wang Z., Martensson A., Morikawa M., Kimizuka N., İsci U., DUMOULIN F., et al.  
CHEMICAL SCIENCE, vol.13, no.40, pp.11904-11911, 2022 (SCI-Expanded)
- XX. **Nanoscaled PAMAM Dendrimer Spacer Improved the Photothermal-Photodynamic Treatment Efficiency of Photosensitizer-Decorated Confeito-Like Gold Nanoparticles for Cancer Therapy**  
Saw W. S., Anasamy T., Thu Thi Anh Do T. T. A. D., Lee H. B., Chee C. F., İsci U., Misran M., DUMOULIN F., Chong W. Y., Kiew L. V., et al.  
MACROMOLECULAR BIOSCIENCE, vol.22, no.8, 2022 (SCI-Expanded)
- XXI. **Peptoid-phthalocyanine architectures with different grafting positions: Synthetic strategy and photoproperties**  
Rzeigui M., Sahin Z., Roy O., Kucuk T., Goler O., Atilla D., Khiari J., DUMOULIN F., Taillefumier C.  
DYES AND PIGMENTS, vol.189, 2021 (SCI-Expanded)
- XXII. **Photodynamic inactivation of Staphylococcus aureus using tetraethylene glycol-substituted Zn(II) phthalocyanine**  
Mete E., Kabay N., DUMOULIN F., Ahsen V., Kostakoglu S. T., Ergin C.  
BIOTECHNIC & HISTOCHEMISTRY, vol.96, no.4, pp.311-314, 2021 (SCI-Expanded)
- XXIII. **Tuning of organic heterojunction conductivity by the substituents' electronic effects in phthalocyanines for ambipolar gas sensors**  
Sahin Z., Meunier-Prest R., DUMOULIN F., Kumar A., İsci U., Bouvet M.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.332, 2021 (SCI-Expanded)
- XXIV. ***In vivo* phototoxic effects of a tetraethyleneglycol-substituted Zn phthalocyanine in tumor bearing rats at an enzymatic level**  
Aykota M. R., Yilmaz S., Erbis H., Kabay N., Kostakoglu S. T., Ahsen V., DUMOULIN F., Yenisey C., Kabay B.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, no.2, pp.120-127, 2021 (SCI-Expanded)
- XXV. **The unique features and promises of phthalocyanines as advanced photosensitisers for photodynamic therapy of cancer**  
Lo P., Salome Rodriguez-Morgade M., Pandey R. K., Ng D. K. P., Torres T., DUMOULIN F.  
CHEMICAL SOCIETY REVIEWS, vol.49, no.4, pp.1041-1056, 2020 (SCI-Expanded)
- XXVI. **Alkylthio-tetrasubstituted  $\mu$ -Nitrido Diiron Phthalocyanines: Spectroelectrochemistry, Electrical**

## **Properties, and Heterojunctions for Ammonia Sensing**

Sahin Z., Meunier-Prest R., DUMOULIN F., Isci U., Bouvet M.

INORGANIC CHEMISTRY, vol.59, no.2, pp.1057-1067, 2020 (SCI-Expanded)

- XXVII. **Effect of PVP formulation on the *in vitro* photodynamic efficiency of a photosensitizing phthalocyanine**  
Pehlivan E. G., Ek Y., TOPKAYA TAŞKIRAN D., Tazebay U. H., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, no.11-12, pp.1587-1591, 2019 (SCI-Expanded)
- XXVIII. **A3B and ABAB aminophthalocyanines: Building blocks for dimeric and polymeric constructs**  
Ekren S. B., DUMOULIN F., Musluoglu E., Ahsen V., GÜNGÖR Ö.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.11-12, pp.1448-1454, 2019 (SCI-Expanded)
- XXIX. **Phthalocyanine-based mesoporous organosilica nanoparticles: NIR photodynamic efficiency and siRNA photochemical internalization**  
Ekiner G., Nguyen C., Bayir S., Dominguez Gil S., Isci U., Daurat M., Godefroy A., Raehm L., Charnay C., Oliviero E., et al.  
CHEMICAL COMMUNICATIONS, vol.55, no.77, pp.11619-11622, 2019 (SCI-Expanded)
- XXX. **CO<sub>2</sub> electrochemical catalytic reduction with a highly active cobalt phthalocyanine**  
Wang M., Torbensen K., Salvatore D., Ren S., Joulie D., DUMOULIN F., Mendoza D., Lassalle-Kaiser B., Isci U., Berlinguette C. P., et al.  
NATURE COMMUNICATIONS, vol.10, 2019 (SCI-Expanded)
- XXXI. **Photoproperties, PVP formulation and F-19 NMR of a Zn phthalocyanine with 24 magnetically pseudo-equivalent fluorine atoms**  
Kucuk T., Alpugan S., Davarci D., Pehlivan E. G., Bayir S., Tazebay U. H., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.611-618, 2019 (SCI-Expanded)
- XXXII. **Preface - Women in Porphyrin Science**  
DUMOULIN F., Nyokong T., Brothers P.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, 2019 (SCI-Expanded)
- XXXIII. **Surfactant-Free Direct Access to Porphyrin-Cross-Linked Nanogels for Photodynamic and Photothermal Therapy**  
Chambre L., Saw W. S., Ekiner G., Kiew L. V., Chong W. Y., Lee H. B., Chung L. Y., Bretonniere Y., DUMOULIN F., Sanyal A.  
BIOCONJUGATE CHEMISTRY, vol.29, no.12, pp.4149-4159, 2018 (SCI-Expanded)
- XXXIV. **Introduction to the themed issue 'Nano- and Molecular Engineering of Photosensitisers'**  
DUMOULIN F.  
PHOTOCHEMICAL & PHOTOBIOLOGICAL SCIENCES, vol.17, no.11, pp.1488-1489, 2018 (SCI-Expanded)
- XXXV. **Near-Infrared Activatable Phthalocyanine Poly-L-Glutamic Acid Conjugate: Enhanced *In Vivo* Safety and Antitumor Efficacy toward an Effective Photodynamic Cancer Therapy**  
Cheah H. Y., Gallon E., DUMOULIN F., Hoe S. Z., Japundzic-Zigon N., Glumac S., Lee H. B., Anand P., Chung L. Y., Jesus Vicent M., et al.  
MOLECULAR PHARMACEUTICS, vol.15, no.7, pp.2594-2605, 2018 (SCI-Expanded)
- XXXVI. **Triphenylphosphonium-substituted phthalocyanine: Design, synthetic strategy, photoproperties and photodynamic activity**  
Tarhouni M., Durand D., Onal E., Aggad D., Isci U., Ekiner G., Bregier F., Jamoussi B., Sol V., Gary-Bobo M., et al.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, no.7, pp.552-561, 2018 (SCI-Expanded)
- XXXVII. **Effect of the Substitution Pattern (Peripheral vs Non-Peripheral) on the Spectroscopic, Electrochemical, and Magnetic Properties of Octahexylsulfanyl Copper Phthalocyanines**  
Turkmen T. A., Zeng L., Cui Y., Fidan I., DUMOULIN F., Hirel C., Zorlu Y., Ahsen V., Chernonosov A. A., Chumakov Y., et al.  
INORGANIC CHEMISTRY, vol.57, no.11, pp.6456-6465, 2018 (SCI-Expanded)
- XXXVIII. **Photophysical properties of palladium/platinum tetrasulfonyl phthalocyanines and their application in triplet-triplet annihilation upconversion**  
Che Y., Yang W., Tang G., DUMOULIN F., Zhao J., Liu L., Isci U.

- JOURNAL OF MATERIALS CHEMISTRY C, vol.6, no.21, pp.5785-5793, 2018 (SCI-Expanded)
- XXXIX. **Sulfanyl vs sulfonyl, 4,5-vs 3,6-position. How structural variations in phthalonitrile substitution affect their infra-red, crystallographic and Hirshfeld surface analyses**  
Onal E., Okyay T. M., Ekiner G., Isci U., Ahsen V., Berber S., Zorlu Y., DUMOULIN F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.310-319, 2018 (SCI-Expanded)
- XL. **Cyclotriphosphazene, a scaffold for F-19 MRI contrast agents**  
Onal E., Zhang C., Davarci D., Isci U., Pilet G., Whittaker A. K., DUMOULIN F.  
TETRAHEDRON LETTERS, vol.59, no.6, pp.521-523, 2018 (SCI-Expanded)
- XLI. **Synthesis and characterization of a new meso-tetra-dihydro benzocyclobutenaphthylene free-base porphyrin**  
Isci U., Topal S. Z., Onal E., Fidan I., Berber S., Ahsen V., Parejo C., Sastre-Santos A., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.173-180, 2018 (SCI-Expanded)
- XLII. **Disulfide-bridge dimeric porphyrin and their reference compounds for glutathione-based specific tumor-activation**  
Alpugan S., TOPKAYA TAŞKIRAN D., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.21, no.12, pp.918-924, 2017 (SCI-Expanded)
- XLIII. **Zn phthalocyanine conjugation to H2-ul aptamer for HER2-targeted breast cancer photodynamic therapy: Design, optimization and properties**  
Alpugan S., TOPKAYA TAŞKIRAN D., ATILLA D., AHSEN V., Niazi J. H., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.21, no.12, pp.887-892, 2017 (SCI-Expanded)
- XLIV. **Porphyrin- or phthalocyanine-bridged silsesquioxane nanoparticles for two-photon photodynamic therapy or photoacoustic imaging**  
Mauriello-Jimenez C., Henry M., Aggad D., Raehm L., Cattoen X., Man M. W. C., Charnay C., Alpugan S., Ahsen V., Tarakci D. K., et al.  
NANOSCALE, vol.9, no.43, pp.16622-16626, 2017 (SCI-Expanded)
- XLV. **Iron porphyrin-modified PVDF membrane as a biomimetic material and its effectiveness on nitric oxide binding**  
Can F., Demirci O. C., DUMOULIN F., Erhan E., Arslan L. C., Ergenekon P.  
APPLIED SURFACE SCIENCE, vol.420, pp.625-630, 2017 (SCI-Expanded)
- XLVI. **Structure-Photoproperties Relationship Investigation of the Singlet Oxygen Formation in Porphyrin-Fullerene Dyads**  
Onal E., Topal S. Z., Fidan I., Berber S., DUMOULIN F., Hirel C.  
JOURNAL OF FLUORESCENCE, vol.27, no.5, pp.1855-1869, 2017 (SCI-Expanded)
- XLVII. **Assessment of the relevance of GaPc substituted with azido-polyethylene glycol chains for photodynamic therapy. Design, synthetic strategy, fluorescence, singlet oxygen generation, and pH-dependent spectroscopic behaviour**  
Koc V., Topal S. Z., Tekdas D. A., Ates O. D., Onal E., DUMOULIN F., Gurek A. G., Ahsen V.  
NEW JOURNAL OF CHEMISTRY, vol.41, no.18, pp.10027-10036, 2017 (SCI-Expanded)
- XLVIII. **Near-infrared activatable phthalocyanine-poly-L-glutamic acid conjugate: increased cellular uptake and light-dark toxicity ratio toward an effective photodynamic cancer therapy**  
Kiew L. V., Cheah H. Y., Voon S. H., Gallon E., Movellan J., Ng K. H., Alpugan S., Lee H. B., DUMOULIN F., Vicent M. J., et al.  
NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE, vol.13, no.4, pp.1447-1458, 2017 (SCI-Expanded)
- XLIX. **Fluorescent H-aggregates of an asymmetrically substituted mono-amino Zn(II) phthalocyanine**  
Bayda M., DUMOULIN F., Hug G. L., Koput J., Gorniaka R., Wojcik A.  
DALTON TRANSACTIONS, vol.46, no.6, pp.1914-1926, 2017 (SCI-Expanded)
- L. **Iodination improves the phototoxicity of an amphiphilic porphyrin**  
TOPKAYA TAŞKIRAN D., Ng S. Y., Bretonniere Y., Lafont D., Chung L. Y., Lee H. B., DUMOULIN F.  
PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, vol.16, pp.12-14, 2016 (SCI-Expanded)
- LI. **Spectroscopic and structural properties of bisphthalonitriles with O/S/SO2 grafting: Comparative theoretical and experimental studies**

- Ekineker G., Pilet G., Berber S., Ahsen V., DUMOULIN F., Onal E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1123, pp.261-270, 2016 (SCI-Expanded)
- LII. **Fluorination of phthalocyanine substituents: Improved photoproperties and enhanced photodynamic efficacy after optimal micellar formulations**  
Pucelik B., Gurol I., Ahsen V., DUMOULIN F., Dabrowski J. M.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.124, pp.284-298, 2016 (SCI-Expanded)
- LIII. **Bisphthalonitrile with a Disulfide-Based Linker and its Dimethylene Analogue: Comparative Structural Insights**  
Alpugan S., Ekineker G., Ahsen V., Berber S., Onal E., DUMOULIN F.  
CRYSTALS, vol.6, no.8, 2016 (SCI-Expanded)
- LIV. **Subtle variations of the behavior of a silylated tetraethylene glycol-substituted Zn phthalocyanine towards acids**  
Onal E., Topal S. Z., Tarhouni M., Isci U., Bassem J., Ahsen V., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, pp.1182-1189, 2016 (SCI-Expanded)
- LV. **Covalent or supramolecular combinations of resorcinarenes and porphyrinoids**  
DUMOULIN F., TOPKAYA TAŞKIRAN D., Yasar S., AHSEN V., İŞÇİ Ü.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, no.5, pp.671-681, 2016 (SCI-Expanded)
- LVI. **Methylsulfonyl Zn phthalocyanine: A polyvalent and powerful hydrophobic photosensitizer with a wide spectrum of photodynamic applications**  
Isici U., Beyreis M., Tortik N., Topal S. Z., Glueck M., Ahsen V., DUMOULIN F., Kiesslich T., Plaetzer K.  
PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, vol.13, pp.40-47, 2016 (SCI-Expanded)
- LVII. **Design of an amphiphilic porphyrin exhibiting high in vitro photocytotoxicity**  
TOPKAYA TAŞKIRAN D., Lafont D., Poyer F., Garcia G., Albrieux F., Maillard P., Bretonniere Y., DUMOULIN F.  
NEW JOURNAL OF CHEMISTRY, vol.40, no.3, pp.2044-2050, 2016 (SCI-Expanded)
- LVIII. **A library of dimeric and trimeric phthalonitriles linked by a single aromatic ring: comparative structural and DFT investigations**  
Koc M., Zorlu Y., Isci U., Berber S., Ahsen V., DUMOULIN F.  
CRYSTENGCOMM, vol.18, no.8, pp.1416-1426, 2016 (SCI-Expanded)
- LIX. **Antimicrobial activity of a quaternized BODIPY against Staphylococcus strains**  
Tekdas D. A., Viswanathan G., Topal S. Z., Looi C. Y., Wong W. F., Tan G. M. Y., Zorlu Y., Gurek A. G., Lee H. B., DUMOULIN F.  
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- LX. **Phthalocyanine-chalcone conjugates**  
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6th International Workshop on Nano and Bio-Photonics" (IWNBP-2022), Annecy, France, 25 - 30 September 2022, pp.46
- XXVII. **NIR-absorbing propargylated phthalocyanines: Design and synthetic strategies**  
Dumouln F.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 July 2022, pp.353
- XXVIII. **Dimeric annulated fused photosensitising phthalocyanines for photodynamic therapy**  
Dumouln F.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.358
- XXIX. **meso-tetra-dihydro benzocyclobutacenaphthylene freebase porphyrin: synthesis and characterization**  
Dumouln F., İşçi Ü.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 July 2022, pp.433
- XXX. **Porphyrins or phthalocyanines: how the porphyrinoidic macrocycle affects the biosensing properties of graphene**  
Dumouln F.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.354
- XXXI. **Comparative photophysical and photochemical study of Zn and Pd phthalocyanines tetra non-**

**peripherally substituted with dimethoxyphenyl moieties**

Dumoulin F.

International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.357

- XXXII. **Towards self-assembling cationic phthalocyanines - synthetic strategies, challenges and progresses**  
Dumoulin F., İsci Ü.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.388
- XXXIII. **Ru vs Si, Pc vs Nc, small vs bulky axial substituents: design, synthesis and effect of these structural variations on photoproperties**  
Dumoulin F., Atilla D., Önal E.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 July 2022, pp.304
- XXXIV. **Water-soluble nickel phthalocyanines as sublayers in MSDI heterojunctions for ammonia sensing**  
Şahin Z., İsci Ü., Dumoulin F.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.311
- XXXV. **Heteroleptic heterometallic  $\mu$ -nitrido porphyrinphthalocyanine complexes: Macrocyclic vs metal variations on oxidation catalysis**  
İsci Ü., Dumoulin F., Yücel Ç.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 July 2022, pp.384
- XXXVI. **Towards PDT-MRI molecular theranostics: TEMPO-substituted phthalocyanines**  
Topkaya Taşkıran D., Dumoulin F., İsci Ü.  
International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10 - 15 July 2022, pp.231
- XXXVII. **Phthalocyanines-based systems for health**  
Dumoulin F.  
International Conference on Porphyrins and Phthalocyanines, Madrid, Spain, 10 - 15 July 2022, pp.64
- XXXVIII. **Water-Soluble Zinc Phthalocyanine-Containing Single Chain Nanoparticles for Photodynamic Cancer Therapy Applications**  
Dumoulin F.  
Bordeaux polymer conference, Bordeaux, France, 13 - 16 June 2022
- XXXIX. **Monomerik ve Dimerik Suda Çözünen Demir Ftalosyaninler**  
Dumoulin F.  
IMASCON, Kocaeli, Turkey, 13 - 14 May 2022
- XL. **Photosensitising amphiphilic phthalocyanines designed to self-assemble**  
Dumoulin F., İsci U.  
Pacifichem, Hawaii, United States Of America, 16 - 21 December 2021
- XLI. **NIR phthalocyanine-based photosensitising nanoparticles for photodynamic therapy**  
Dumoulin F.  
Pacifichem, Hawaii, United States Of America, 16 - 21 December 2021
- XLII. **Phthalocyanine-based photosensitising nanoparticles**  
DUMOULIN F.  
5th International BAU Drug Design Congress, 19 - 21 October 2017
- XLIII. **Phthalocyanines : Wonderful yet to be more explored photosensitisers**  
DUMOULIN F.  
16th International Photodynamic Association World Congress, 8 - 13 June 2017
- XLIV. **Perfect photosensitisers? More than ever an exciting challenge**  
DUMOULIN F.  
Photodynamic Therapy and Photodiagnosis update, 24 - 28 October 2016
- XLV. **Porphyrinoids-resorcinarene cavitand hybrids: a strategy to maximize interactions between phthalocyanines and fullerenes**  
ŞAHİN Z., TOPKAYA TAŞKIRAN D., ÇOLAK S. G., İNCE OCAKOĞLU M., AHSEN V., DUMOULIN F., İŞÇİ Ü.  
Eighth International Conference on Porphyrins and Phthalocyanines (ICPP-9), Nanjing, China, 3 - 08 July 2016
- XLVI. **Singlet Oksijen Üretimini ve Hücre Alımını Arttıran Halojen İçeren Asimetrik İşığa Duyarlı Porfirinlerin Tasarımı**

- TOPKAYA TAŞKIRAN D., DUMOULIN F.  
2. Ulusal Organik Kimya Kongresi, Turkey, 24 - 26 September 2014
- XLVII. **Aktif Kısımların Varlığının Etkisini Araştırabilmek için Uygun şekilde Sübstitüe Edilmiş Ftalosiyanın Tasarımı ve Biotin Konjügasyonunda Kullanılması**  
Tarakcı D. K., ATİLLA D., ZORLU Y., AHSEN V., DUMOULIN F.  
2. Ulusal Organik Kimya Kongresi, Turkey, 24 - 26 September 2014
- XLVIII. **Yapı-Aktivite İlişkisi ve İstenilen Özelliklerin İnce Ayarı Dikkate Alınarak İşığa Duyarlı Ftalosiyanın Tasarımı**  
DUMOULIN F.  
2. Ulusal Organik Kimya Kongresi, Turkey, 24 - 26 September 2014
- XLIX. **Expeditious selective access to functionalized platforms of A(7)B-type heteroleptic lanthanide double-decker complexes of phthalocyanine**  
Alpugan S., İŞÇİ Ü., Albrieux F., Hirel C., GÜREK A. G., Bretonniere Y., AHSEN V., DUMOULIN F.  
International Conference on Porphyrins and Phthalocyanines (ICPP-8), 22 - 27 June 2014
- L. **Carbohydrates-conjugated phthalonitriles**  
DUMOULIN F., TUNCEL KOSTAKOĞLU S., Kumru U., AHSEN V.  
International Conference on Organic Chemistry, 5 - 09 June 2007
- LI. **2-Substituted 5,6-dicyanobenzimidazoles: Comparison of two synthetic pathways**  
Hirel C., Önal E., DUMOULIN F., AHSEN V.  
International Conference on Organic Chemistry, 5 - 09 June 2007

## Supported Projects

- Dumoulin F., İşçi Ü., Dumoulin İşçi F. A. C., Other International Funding Programs, Conversion of atmospheric CO<sub>2</sub> into energy storage in Na-CO<sub>2</sub> battery, 2024 - 2027
- Timuçin A. C., İşçi Ü., Dumoulin F., Timuçin E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Phthalozymes: new artificial metalloenzymes for concomitant photocatalytic hydrogen production and CO<sub>2</sub> reduction, 2024 - 2027
- Emamı A., Dumoulin F., Önal Dumanoglu E., TUBITAK Project, Ftalosiyanın Baslatıcılı Polikaprolakton (Pcl) Nanopartiküllerin Nanomühendisliği: Toplam Aynı Sayıda Heksanoat Birimi İçin Makrosiklik Üzerindeki Pcl Zincirlerinin Dağılımının Etkisinin Araştırılması, 2025 - 2026
- Dumoulin F., Dumoulin İşçi F. A. C., Other International Funding Programs, Macromolecular Photodynamic Therapy Agents, 2024 - 2026
- Gök Özatay Ö., Dumoulin F., Project Supported by Higher Education Institutions, ANTİMİKRO B İYAL FO TO DİNAMİK TERAPİ İÇİN İŞİĞA DUYARLI PO RFİRİNO İD B AZLI PO LİMERİK MALZEMELER, 2023 - 2025
- Dandan Doğancı M., Dumoulin F., TUBITAK Project, Sandviç Tipi Lütesyum Dimerik Ftalosiyanın Merkezli Biyouyumlu Poli(?-Kaprolakton) (PCL) ve Poli(Laktik Asit) (PLA) Yıldız Polimerlerin Sentezi ve Redoks Probu Olarak Kullanım Potansiyellerinin in vitro Kosullarda Araştırılması, 2022 - 2025
- Dumoulin F., Sipahioğlu D., Other International Funding Programs, Bourse de recherche de l'Ambassade de France en Turquie (Dilara Sipahioğlu), 2024 - 2024
- Dumoulin F., Önal Dumanoglu E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Agrege Olmayan, Yüksek Oranda Singlet Oksijen Üretebilen, Yakın Kızıl Ötesi Bölgede Uyarılabilen İşığa Duyarlı Yeni Ftalosiyanın Türevleri: Tümör Hedefli Biyo-Uyumlu Nanoparçacıklarında Enkapsülasyonu ve Antikanser Fotodinamik Etkilerinin İncelenmesi, 2021 - 2023
- Dumoulin F., Taşkıran D. T., TUBITAK Project, PDT-MRI Moleküler Teranostikler: 4, 8, 20 ve 40 Tempo Birimleri İçeren Ftalosiyanın, 2019 - 2023
- Dumoulin F., Savaş A., TUBITAK Project, Peglenmiş Polimerlerin Çapraz Bağlayıcısı Olarak Dimetakrilat Porfirin Üretimi: Monomer/Çapraz Bağlayıcı Oranının Polimerlerin Fiziksel Ve Foto Özellikleri Üzerindeki Etkisi, 2021 - 2022
- Dumoulin F., TÜBİTAK International Bilateral Joint Cooperation Program Project, Amphiphilic phthalocyanines designed to self-assemble into mixed or pure phthalosomes with orthogonal functionalization opportunities and tailored for PDT,

PTT or light-triggered drug delivery, 2020 - 2022

## Activities in Scientific Journals

TURKISH JOURNAL OF CHEMISTRY, Committee Member, 2023 - Continues

RSC ADVANCES, Committee Member, 2022 - Continues

Journal Of Porphyrins And Phthalocyanines, Editor, 2018 - Continues

RSC Advances, Editor, 2015 - Continues

RSC ADVANCES, Special Issue Editor, 2024 - 2024

PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES, Special Issue Editor, 2023 - 2024

RSC ADVANCES, Special Issue Editor, 2022 - 2023

## Memberships / Tasks in Scientific Organizations

European Society for Photobiology, Board Member, 2023 - Continues, Italy

European Society for Photobiology, Member of Science Committee, 2021 - Continues, Italy

Society of Porphyrins and Phthalocyanines, Country Representative, 2021 - Continues, France

International Photodynamic Association, Member, 2017 - Continues, United States Of America

Royal Society of Chemistry, Associate Member, 2016 - Continues, England

European Society for Photobiology, Member, 2011 - Continues, Italy

Society of Porphyrins and Phthalocyanines, Member, 2008 - Continues, France

## Peer Reviews in Scientific Publications

ANGEWANDTE CHEMIE - INTERNATIONAL EDITION, SCI Journal, December 2024

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, SCI Journal, December 2024

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, SCI Journal, November 2024

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, SCI Journal, November 2024

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, SCI Journal, November 2024

BIOCONJUGATE CHEMISTRY, SCI Journal, October 2024

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, October 2024

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, SCI Journal, October 2024

RSC ADVANCES, SCI Journal, October 2024

ANGEWANDTE CHEMIE - INTERNATIONAL EDITION, SCI Journal, October 2024

DALTON TRANSACTIONS, SCI Journal, September 2024

RSC ADVANCES, SCI Journal, August 2024

JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, SCI Journal, August 2024

PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES, SCI Journal, August 2024

JOURNAL OF MEDICINAL CHEMISTRY, SCI Journal, August 2024

CHEMICAL COMMUNICATIONS, SCI Journal, August 2024

PHOTOCHEMICAL AND PHOTOBIOLOGICAL SCIENCES, SCI Journal, July 2024

INORGANIC CHEMISTRY, SCI Journal, July 2024

ANGEWANDTE CHEMIE - INTERNATIONAL EDITION, SCI Journal, June 2024

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, SCI Journal, June 2024

INORGANIC CHEMISTRY, SCI Journal, May 2024

RSC ADVANCES, SCI Journal, May 2024

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, SCI Journal, April 2024

ANGEWANDTE CHEMIE - INTERNATIONAL EDITION, SCI Journal, April 2024



ACS APPLIED BIO MATERIALS, SCI Journal, April 2024  
POLYMER CHEMISTRY, SCI Journal, April 2024  
RSC ADVANCES, SCI Journal, April 2024  
RSC ADVANCES, SCI Journal, April 2024  
ACS APPLIED ENGINEERING MATERIALS, SCI Journal, March 2024  
RSC ADVANCES, SCI Journal, March 2024  
RSC ADVANCES, SCI Journal, March 2024  
RSC ADVANCES, SCI Journal, March 2024  
RSC ADVANCES, SCI Journal, February 2024  
RSC ADVANCES, SCI Journal, January 2024  
RSC ADVANCES, SCI Journal, January 2024

## Scientific Consultations

TUBITAK 1071 Msc fellow supervision, Other, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, Turkey, 2024 - Continues  
TUBITAK 1001 Post-doc fellow supervision, Other, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, Turkey, 2024 - Continues  
ACU Post-doc fellow supervision, Other, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, Turkey, 2023 - Continues  
Sigma Clermont Erasmus Intern Supervision, Other, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, Turkey, 2024 - 2024  
Aix-Marseille Universit es Erasmus Intern Supervision, Other, Acibadem Mehmet Ali Aydinlar University, Faculty Of Engineering and Natural Sciences, Biomedical Engineering, Turkey, 2024 - 2024

## Scientific Research / Working Group Memberships

Cost Action Ca20129 - Multiscale Irradiation And Chemistry Driven Processes And Related Technologies (Multichem) , Acibadem Mehmet Ali Aydinlar University, Turkey, <https://www.cost.eu/actions/CA20129/>, 2023 - Continues  
Cost Action Ca21145 - European Network For Diagnosis And Treatment Of Antibiotic-Resistant Bacterial Infections (Eurestop), Acibadem Mehmet Ali Aydinlar University, Turkey, <https://www.cost.eu/actions/CA21145/>, 2022 - Continues  
Cost Action Ca19145 - European Network For Assuring Food Integrity Using Non-Destructive Spectral Sensors (Sensorfint), Acibadem Mehmet Ali Aydinlar University, Turkey, <https://www.cost.eu/actions/ca19145/>, 2023 - 2024  
Cost Action Ca18217 - European Network For Optimization Of Veterinary Antimicrobial Treatment (Enovat), Acibadem Mehmet Ali Aydinlar University, Turkey, <https://www.cost.eu/actions/CA18217/>, 2023 - 2024

## Metrics

Publication: 164  
Citation (WoS): 3427  
Citation (Scopus): 3630  
H-Index (WoS): 30  
H-Index (Scopus): 30

## Congress and Symposium Activities

RSC Advances Editorial Board meeting, Panelists, Glasgow, England, 2024

35. Ulusal Kimya Kongresi , Session Moderator, Diyarbakır, Turkey, 2024  
13th International Conference on Porphyrins and Phthalocyanines (ICPP-13), Session Moderator, New York, United States Of America, 2024  
Horizon Europe - ERA 2024-02 Knowledge Day and Brokerage Event, Attendee, Warszawa, Poland, 2024  
Executive Meeting of the European Society for Photobiology , Panelists, Bari, Italy, 2024  
RSC Advances Editorial Board meeting, Panelists, London, England, 2023  
International Symposium on Inorganic and Environmental Materials (ISIEM-2023), Invited Speaker, Montpellier, France, 2023  
RSC Advances Editorial Board meeting, Invited Speaker, London, England, 2022  
COST Connect, Attendee, Brussels, Belgium, 2022  
Horizon Europe MSCA-ITN Polythea meeting, Panelists, Brussels, Belgium, 2022

## Scholarships

Invited professorship Univ Paris Cité, University, 2024 - 2024  
Invited professorship ENS Lyon, University, 2024 - 2024  
COST Action CA21145 STSM, Other International Organizations, 2023 - 2023  
Invited professorship ENS Lyon, University, 2023 - 2023  
Invited professorship ENS Lyon, University, 2022 - 2022

## Awards

Dumoulin F., Araştırmadaki Olağanüstü Başarı, Acıbadem Mehmet Ali Aydınlar Üniversitesi Mühendislik Ve Doğa Bilimleri Fakültesi Dekanlığı, November 2024  
Dumoulin F., Eşik Üstü Ödülü, Tübitak, September 2024  
Dumoulin F., Araştırmadaki Üstün Başarı, Acıbadem Mehmet Ali Aydınlar Üniversitesi Mühendislik Ve Doğa Bilimleri Fakültesi Dekanlığı, September 2022  
Dumoulin F., Eşik Üstü Ödülü, Tübitak, June 2022  
Dumoulin F., Research Incentive Award, Mustafa Parlar Vakfı, May 2016  
Dumoulin F., Genç Bilim İnsanları Ödülü, Bilim Akademisi, April 2016  
Dumoulin F., GEBİP, Türkiye Bilimler Akademisi, July 2015