

## Prof. FABIENNE DUMOULIN

### Personal Information

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### International Researcher IDs

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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

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

Fakülte Yönetim Kurulu Üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2021 - Continues

İntibak Komisyonu Başkanı, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2021 - Continues

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

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

Staj Komisyonu, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural Sciences, Biomedical Engineering, 2021 - Continues

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

Ölçme Değerlendirme Kurulu üyesi, Acibadem Mehmet Ali Aydınlar University, Faculty Of Engineering And Natural

## Courses

Tez, Postgraduate, 2022 - 2023

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

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

Tez, Doctorate, 2022 - 2023

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

Designing PHOTOSENSITIZERS with improved efficiency, Postgraduate, 2023 - 2024

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

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

Organic Chemistry, Undergraduate, 2020 - 2021

Photosensitisers for PDT, Postgraduate, 2020 - 2021

İLERİ ORGANİK KİMYA, Postgraduate, 2017 - 2018, 2016 - 2017

PHTHALOCYANİNES AND PORPHYRİNES, Doctorate, 2015 - 2016, 2014 - 2015, 2012 - 2013

## Advising Theses

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

Dumoulin F., Photodynamic therapy, Doctorate, D.Sipahioğlu(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

- 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)

- 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)

- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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.814-836, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)

- XV. **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., Isci U., Misran M., DUMOULIN F., Chong W. Y., Kiew L. V., et al.  
MACROMOLECULAR BIOSCIENCE, vol.22, no.8, 2022 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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., Isci U., Bouvet M.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.332, 2021 (SCI-Expanded)
- XIX. ***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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **Phthalocyanine-based mesoporous organosilica nanoparticles: NIR photodynamic efficiency and siRNA photochemical internalization**  
Ekineker 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)
- XXV. **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)
- XXVI. **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)
- XXVII. **Preface - Women in Porphyrin Science**

- DUMOULIN F., Nyokong T., Brothers P.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, 2019 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)

- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **Spectroscopic and structural properties of bisphthalonitriles with O/S/SO<sub>2</sub> 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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **Methylsulfonyl Zn phthalocyanine: A polyvalent and powerful hydrophobic photosensitizer with a wide spectrum of photodynamic applications**  
Isci 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)
- LII. **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)

- LIII. **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.  
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.14, no.9, pp.2665-2670, 2016 (SCI-Expanded)
- LIV. **Phthalocyanine-chalcone conjugates**  
Aribi F., Vey C., TOPKAYA TAŞKIRAN D., KOSTAKOĞLU S. T., Fournier-dit-Chabert J., Buyukeksi S. I., Taskin G. C., Alpugan S., Albrieux F., GÜREK A. G., et al.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, pp.497-504, 2016 (SCI-Expanded)
- LV. **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)
- LVI. **Modulation of singlet oxygen generation and amphiphilic properties of trihydroxylated monohalogenated porphyrins**  
TOPKAYA TAŞKIRAN D., Arnoux P., DUMOULIN F.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.19, no.10, pp.1081-1087, 2015 (SCI-Expanded)
- LVII. **Resorcinarene-mono-benzimidazolium salts as NHC ligands for Suzuki-Miyaura cross-couplings catalysts**  
İŞÇİ Ü., AYGÜN M., SEVİNÇEK R., ZORLU Y., DUMOULIN F.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.6, pp.1300-1310, 2015 (SCI-Expanded)
- LVIII. **The synthesis of an octasubstituted monohydroxylated phthalocyanine designed to investigate the effect of the presence of active moieties**  
Tarakci D. K., Berber S., Zorlu Y., Atilla D., Ahsen V., DUMOULIN F.  
NEW JOURNAL OF CHEMISTRY, vol.39, no.5, pp.3929-3935, 2015 (SCI-Expanded)
- LIX. **Site-selective formation of an iron(IV)-oxo species at the more electron-rich iron atom of heteroleptic mu-nitrido diiron phthalocyanines**  
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- III. **Modulation of photosensitizing phthalocyanines' photoproperties via encapsulation into PMLABe**  
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Timuçin A. C., İŖci 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

Gök Özatay Ö., Dumoulin F., Project Supported by Higher Education Institutions, ANTİMİKRO B İYAL FO TO DİNAMİK TERAPİ İÇİN İŖIĐA DUYARLI PO RFİRİNO İD B AZLI PO LİMERİK MALZEMELER, 2023 - 2025

Dandan DoĐancı 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 Arastrılması, 2022 - 2025

Dumoulin F., Önal Dumanoğlu E., TÜBİTAK International Bilateral Joint Cooperation Program Project, Agrege Olmayan, Yüksek Oranda Singlet Oksijen Üretebilen, Yakın Kızıl Ötesi Bölgede Uyarılabilen Işığa Duyarlı Yeni Ftalosiyanın Türevleri: Tümör Hedefli Biyo-Uyumlu Nanoparçacıklarında Enkapsülasyonu ve Antikanser Fotodinamik Etkilerinin İncelenmesi, 2021 - 2023

Dumoulin F., Taşkiran D. T., TUBITAK Project, PDT-MRI Moleküler Teranostikler: 4, 8, 20 ve 40 Tempo Birimleri İçeren Ftalosiyaninler, 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

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

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, 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

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

## Tasks In Event Organizations

Dumoulin F., 18th International Photodynamic Association World Congress - IPA 2023, Scientific Congress, Finland, Temmuz 2023

Dumoulin F., X Mediterranean Organic Chemistry Meeting - X REQOMED, Scientific Congress, Turkey, Ekim 2022

Dumoulin F., 19th Congress of the European Society for Photobiology (ESP), Scientific Congress, Austria, Eylül 2021

Dumoulin F., ICPP-11 / Symp 34. Porphyrinoids-based nanoparticles for health, Scientific Congress, New York, United States Of America, Temmuz 2021

Dumoulin F., Yukselen G., The 5th Photodynamic Day, Scientific Congress, Turkey, Mayıs 2021

## Metrics

Publication: 145

Citation (WoS): 2982

Citation (Scopus): 3337

H-Index (WoS): 28

H-Index (Scopus): 29

## **Congress and Symposium Activities**

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., Arařtırmadaki Üstün Başarı, Acıbadem Mehmet Ali Aydınlar Üniversitesi Mühendislik Ve Doęa Bilimleri Fakültesi Dekanlığı, September 2022

Dumoulin F., "2024 - Eşik Üstü Ödülü" Programı, 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