

Dr. Simon PASCAL

Publications and Communications list

PUBLICATIONS	1
ORAL COMMUNICATIONS & INVITED SEMINARS.....	9
POSTERS (PERSONALLY PRESENTED)	12

● Co-author of **83 publications** (24 as corresponding author, 16 as first author):

1 *Chem. Soc. Rev.* (48.3), 1 *Coord. Chem. Rev.* (25.6), 1 *Adv. Funct. Mater.* (19.9), 3 *Angew. Chem. Int. Ed.* (17.6), 1 *ACS Nano* (17.3), 1 *J. Hazard. Mater.* (10.6), 1 *Chem. Rec.* (8.9), 1 *JACS Au* (8.5), 7 *Chem. Sci.* (8.1), 2 *Mater. Chem. Front.* (8.1), 2 *ACS Appl. Mater. Interfaces* (7.8), 1 *J. Med. Chem.* (7.3), 1 *Chem. Mater.* (7.1), 1 *Nanoscale Adv.* (6.3), 2 *RSC Adv.* (6.1), 1 *Electrochim. Acta* (5.8), 1 *Polymers* (5.8), 1 *ChemElectroChem* (5.2), 1 *J. Mater. Chem. C* (5.1), 1 *RSC Appl. Polym.* (5.1), 1 *Sci. Rep.* (4.9), 2 *Org. Lett.* (4.7), 1 *Org. Chem. Front.* (4.5), 5 *Chem. Commun.* (4.3), 3 *Dyes Pigm.* (3.9), 1 *Bioconjugate Chem.* (4.5), 8 *Chem. Eur. J.* (3.6), 2 *J. Phys. Chem. C* (3.4), 5 *J. Org. Chem.* (3.3), 2 *Dalton Trans.* (3.3), 1 *ChemPhotoChem* (3.0), 2 *Phys. Chem. Chem. Phys.* (3.0), 1 *J. Phys. Chem. A* (3.0), 1 *Eur. J. Org. Chem.* (2.8), 5 *Org. Biomol. Chem.* (2.8), 3 *New J. Chem.* (2.6), 1 *ChemPhysChem* (2.4), 1 *Organometallics* (2.4), 1 *Helv. Chim. Acta* (1.9), 1 *Tet. Lett.* (1.4), 2 *C. R. Chimie* (1.3), *J. Porphyrins Phthalocyanines* (1.0), 2 *Proc. SPIE* (n/a).

● **28 oral communications** in congresses, **16 invited talks**, **20 posters** personally presented.

PUBLICATIONS

[83] "Zinc Tetrabenzotriazaporphyrins: Improved Synthesis, Structural Analysis and Photophysical Properties"
D. Defferrari, S. Pascal, S. Diring, D. Jacquemin,* F. Odobel*

Dyes Pigm. **2026**, in press

DOI: [10.1016/j.dyepig.2026.114276](https://doi.org/10.1016/j.dyepig.2026.114276)

HAL archive: [hal-05791659](https://hal.archives-ouvertes.fr/hal-05791659)

[82] "Benzo-bis(imidazole) self-assembled monolayers molecular junctions in meta or para conformation: effects of protonation on the electrical and thermal conductances"

S. Gonzalez Cazal, S. Pascal, O. Siri, D. Vuillaume*

J. Mater. Chem. C **2026**, in press

DOI: [10.1039/D6TC02024K](https://doi.org/10.1039/D6TC02024K)

HAL archive: [hal-05571938](https://hal.archives-ouvertes.fr/hal-05571938)

[81] "A Zirconium Aza-BODIPY Derivative as a Near-Infrared Fluorescent/Photoacoustic Imaging Bimodal Probe"

M. Bendellaa, A. Godard, C. Cave, G. Kalot, L. Verrieux, J. Pineau, M. Henry, F. Chotard, A. Sickinger, L. Abad Galán, V. Josserand, P. Le Gendre, C. Goze, S. Pascal, A. Fihey, B. Le Guennic, O. Maury, C. Andraud, B. Busser,* E. Bodio,* L. Sancey*

J. Med. Chem. **2026**, 69, 16949–16963

DOI: [10.1021/acs.jmedchem.6c00735](https://doi.org/10.1021/acs.jmedchem.6c00735)

HAL archive: [hal-05718812](https://hal.archives-ouvertes.fr/hal-05718812)

[80] "Synthesis and Properties of Cross-Shaped Donor–Acceptor Dyes: Tunable Emission From Visible to Near-Infrared in Solution and Solid-State"

B. Mourot, G. Canard, M. Giorgi, O. Siri, D. Jacquemin,* S. Pascal*

Eur. J. Org. Chem. **2026**, 29, e70650 (invited)

DOI: [10.1002/ejoc.70650](https://doi.org/10.1002/ejoc.70650)

HAL archive: [hal-05674804](https://hal.archives-ouvertes.fr/hal-05674804)

[79] "Tetraazapentacene Zwitterion as Visible and Sunlight Photoinitiator for Free Radical Polymerization"

F. Mouhoubi, E. Barré, A. Goupille, D.-L. Versace,* S. Pascal*

ChemPhotoChem **2026**, 10, e202600010 (invited)

DOI: [10.1002/cptc.202600010](https://doi.org/10.1002/cptc.202600010)

HAL archive: [hal-05603909](https://hal.archives-ouvertes.fr/hal-05603909)

[78] "Examination of the Aromatic vs. Coupled Polymethine Character in Dicationic and Neutral Acceptor-Donor-Acceptor Dyes"

B. Mourot, C. Naim, G. Canard, R. Reboh, O. Siri, D. Jacquemin,* S. Pascal*

J. Org. Chem. **2026**, 91, 4587–4600

DOI: [10.1021/acs.joc.5c02985](https://doi.org/10.1021/acs.joc.5c02985)

HAL archive: [hal-05560786](https://hal.archives-ouvertes.fr/hal-05560786)



[77] "Synthesis and Photophysical Properties of Push-Pull Type Pyrroloquinolone Fluorescent Dyes"

C. Jbilou, P. De Bonfils, Y.-H. Cho, G. Gunther, A. Planchat, X. Moreau, S. Pascal, D. Jacquemin,* P. Nun, V. Coeffard*

J. Org. Chem. **2026**, 91, 53–63

DOI: [10.1021/acs.joc.5c01586](https://doi.org/10.1021/acs.joc.5c01586)

HAL archive: [hal-05479130](https://hal.archives-ouvertes.fr/hal-05479130)

[76] "Dye-Sensitized Solar Cells Based on Cu(I) Complexes Containing Catechol Anchor Groups that Operate with Aqueous Electrolytes"

L. Burmeister, F. Doettinger, K. Haseloff, C. Kleeberg, M. Boujtita, S. Pascal, F. Odobel, S. Tschierlei, Y. Pellegrin,* M. Karnahl*

JACS Au **2025**, 5, 23960–3973

DOI: [10.1021/jacsau.5c00601](https://doi.org/10.1021/jacsau.5c00601)

HAL archive: [hal-05192451](https://hal.archives-ouvertes.fr/hal-05192451)

[75] "Metastable Macrocyclic Bis-Meisenheimer Adduct"

S. Pascal,* A. Torres Ruiz, A. E. Baker, D. A. Vander Griend, M. Giorgi, A. Planchat, D. Jacquemin,* O. Siri*

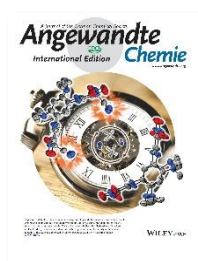
Angew. Chem. Int. Ed. **2025**, 64, e202511037

DOI: [10.1002/anie.202511037](https://doi.org/10.1002/anie.202511037)

Angew. Chem. **2025**, 137, e202511037

DOI: [10.1002/ange.202511037](https://doi.org/10.1002/ange.202511037)

HAL archive: [hal-05151655](https://hal.archives-ouvertes.fr/hal-05151655)



[74] "Synthesis and Properties of Quinoidal (Di-)Anionic Coupled Polymethine-Oxonol Dyes and Their Aromatic Counterparts"

B. Mourot, C. Naim, O. Siri, D. Jacquemin,* S. Pascal*

Org. Chem. Front. **2025**, 12, 5770–5782

(selected for *Emerging Investigator Series*)

DOI: [10.1039/D5Q000801H](https://doi.org/10.1039/D5Q000801H)

HAL archive: [hal-05143589](https://hal.archives-ouvertes.fr/hal-05143589)

[73] "Small Far-Red Cationic Benzoquinone Diimine Dyes"

T. Munteanu, C. Naim, G. Canard, D. Jacquemin,* O. Siri,* S. Pascal*

Org. Biomol. Chem. **2025**, 23, 2836–2844

DOI: [10.1039/D5OB00082C](https://doi.org/10.1039/D5OB00082C)

HAL archive: [hal-04963470](https://hal.archives-ouvertes.fr/hal-04963470)

[72] "On-surface Gold-catalyzed Hydroamination/Cyclization Reaction of Alkynes"

A. Jiménez-Martín, T. Munteanu, Q. Chen, S. Pascal, A. Tintaru, B. Mallada, P. Mutombo, O. Siri,* P. Jelinek,* B. de la Torre*

Mater. Chem. Front. **2025**, 9, 838–846

DOI: [10.1039/D4QM00866A](https://doi.org/10.1039/D4QM00866A)

HAL archive: [hal-04906550](https://hal.archives-ouvertes.fr/hal-04906550)

[71] "Transamination of Zwitterionic Quinones with Polyamines: The Carbon Bridge Matters"

V. Tarpa, J.-F. Longevial, M. Giorgi, G. Canard, S. Pascal, D. Jacquemin,* O. Siri*

J. Org. Chem. **2025**, 90, 1001–1005

DOI: [10.1021/acs.joc.4c02100](https://doi.org/10.1021/acs.joc.4c02100)

HAL archive: [hal-04867721](https://hal.archives-ouvertes.fr/hal-04867721)



[70] "Terpenes, natural dyes and photochemistry: toward the synthesis of photoactive bio-based materials with biocide properties"

L. Breloy, C. Elian, V. Alphonse, S. Lajnef, F. Peyrot, D. Jacquemin, S. Pascal, E. Devernois, T. Coradin, S. Abbad Andaloussi, D.-L. Versace*

RSC Appl. Polym. **2025**, 3, 222–237

DOI: [10.1039/D4LP00271G](https://doi.org/10.1039/D4LP00271G)

HAL archive: [hal-04829892](https://hal.archives-ouvertes.fr/hal-04829892)

[69] "Coupled Polymethine Dyes: Six Decades of Discoveries"

B. Mourot, D. Jacquemin, O. Siri, S. Pascal*

Chem. Rec. **2024**, 24, e202400183

DOI: [10.1002/tcr.202400183](https://doi.org/10.1002/tcr.202400183)

HAL archive: [hal-04777010](https://hal.archives-ouvertes.fr/hal-04777010)



[68] "1,2,4-triamino-5-nitrobenzene as air-stable aromatic polyamines for coordination chemistry"

S. Pascal,* E. Zaborova, O. Siri*

C. R. Chimie **2024**, 27, 69–75

DOI: [10.5802/crchim.292](https://doi.org/10.5802/crchim.292)

HAL archive: [hal-04677386](https://hal.archives-ouvertes.fr/hal-04677386)

[67] "Feasibility of Multiple Excited-State Proton Transfer Processes in Hydroxyquinoline-containing Benzobisimidazole Dyes"

T. Munteanu, D. Yordanov, G. Canard, O. Siri,* D. Jacquemin,* A. Georgiev,* S. Pascal*

New J. Chem. **2024**, 48, 13289–13295

DOI: [10.1039/D4NJ01787K](https://doi.org/10.1039/D4NJ01787K)

HAL archive: [hal-04642128](https://hal.archives-ouvertes.fr/hal-04642128)

[66] "Post-functionalization of triamino-phenazinium dyes to reach near-infrared emission"

T. Munteanu, J.-F. Longevial, G. Canard, D. Jacquemin, S. Pascal,* O. Siri*

RSC Adv. **2024**, 14, 19257–19263

DOI: [10.1039/D4RA03245D](https://doi.org/10.1039/D4RA03245D)

HAL archive: [hal-04614356](https://hal.archives-ouvertes.fr/hal-04614356)

[65] "High-Order Commensurate Zwitterionic Quinonoid Phase Induces a Nanoscale Dipole Lattice on Graphene"

G. Nassar, D. Cortés-Arriagada, L. Sanhueza-Vega, P. Landois, M. Paillet, H. Hrich, S. Contreras, O. Siri, S. Pascal, L. Masson, C. Becker, A. Ranguis, R. Parret, G. Canard, T. Leoni*

J. Phys. Chem. C **2024**, 128, 9712–9721

DOI: [10.1021/acs.jpcc.4c01695](https://doi.org/10.1021/acs.jpcc.4c01695)

HAL archive: [hal-04609427](https://hal.archives-ouvertes.fr/hal-04609427)

[64] "Two-step access to bis-meso-perfluoroalkyl-corroles towards meso-perfluoroacyl-ABC-corroles"

P.-G. Julliard, S. Pascal, O. Siri, M. Giorgi, D. Cortés-Arriagada, L. Sanhueza,* G. Canard*

Org. Biomol. Chem. **2024**, 22, 1993–1997

DOI: [10.1039/D4OB00191E](https://doi.org/10.1039/D4OB00191E)

HAL archive: [hal-04493017](https://hal.archives-ouvertes.fr/hal-04493017)

[63] "Insights into Extended Coupled Polymethines through the Investigation of Dual UV-to-NIR Acidochromic Switches Based on Heptamethine-Oxonol Dyes"

B. Mourrot, V. Mazan, M. Elhabiri, R. Sarkar, D. Jacquemin,* O. Siri, S. Pascal*

Chem. Sci. **2024**, 15, 1248–1259

(HOT article)

DOI: [10.1039/D3SC06126D](https://doi.org/10.1039/D3SC06126D)

HAL archive: [hal-04345047](https://hal.archives-ouvertes.fr/hal-04345047)



[62] "Controlled oligomeric guest stacking by cucurbiturils in water"

F. Liu, A. Kriat, R. Rosas, D. Berge-Lefranc, D. Gigmes, S. Pascal, O. Siri, S. Liu,* A. Kermagoret,* D. Bardelang*

Org. Biomol. Chem. **2023**, 21, 9433–9442

DOI: [10.1039/D3OB01723K](https://doi.org/10.1039/D3OB01723K)

HAL archive: [hal-04294802](https://hal.archives-ouvertes.fr/hal-04294802)

[61] "Enzyme-immobilized hierarchically porous covalent organic framework biocomposite for catalytic degradation of broad-range emerging pollutants in water"

N. Elmerhi, K. Al-Maqdi, K. Athamneh, A. K. Mohammed, T. Skorjanc, F. Gándara, J. Raya, S. Pascal, O. Siri, A. Trabolsi, I. Shah, D. Shetty,* S. S. Ashraf*

J. Hazard. Mater. **2023**, 459, 132261 (1–9)

DOI: [10.1016/j.jhazmat.2023.132261](https://doi.org/10.1016/j.jhazmat.2023.132261)

HAL archive: [hal-04183683](https://hal.archives-ouvertes.fr/hal-04183683)

[60] "Tris-benzo[cd]indole Cyanine Enables the NIR-photosensitized Radical and Thiol-ene Polymerizations at 940 nm"

C. Elia, B. Mourrot, C. Benbouziyane, J.-P. Malval, S. Lajnef, F. Peyrot, F. Massuyeau, O. Siri, D. Jacquemin,* S. Pascal,* D.-L. Versace*

Angew. Chem. Int. Ed. **2023**, 62, e2023059 (1–10)

DOI: [10.1002/anie.202305963](https://doi.org/10.1002/anie.202305963)

Angew. Chem. **2023**, 135, e202305 (1–10)

DOI: [10.1002/ange.202305963](https://doi.org/10.1002/ange.202305963)

HAL archive: [hal-04183684](https://hal.archives-ouvertes.fr/hal-04183684)

[59] "A Strategy to Design Substituted Tetraamino-Phenazine Dyes and Access to an NIR-Absorbing Benzoquinonediimine-Fused Quinoxaline"

T. Munteanu, V. Mazan, M. Elhabiri, C. Benbouziyane, G. Canard, D. Jacquemin,* O. Siri,* S. Pascal*

Org. Lett. **2023**, 25, 3886–3891

DOI: [10.1021/acs.orglett.3c01251](https://doi.org/10.1021/acs.orglett.3c01251)

HAL archive: [hal-04103261](https://hal.archives-ouvertes.fr/hal-04103261)

[58] "A pH- and Metal-Actuated Molecular Shuttle in Water"

A. Kriat, S. Pascal, B. Kauffmann, Y. Ferrand, D. B.-Lefranc, D. Gigmes, O. Siri, A. Kermagoret,* D. Bardelang*

Chem. Eur. J. **2023**, 29, e2023006 (1–10)

DOI: [10.1002/chem.202300633](https://doi.org/10.1002/chem.202300633)

HAL archive: [hal-04087079](https://hal.archives-ouvertes.fr/hal-04087079)

[57] "Azacalixpyrrol nanostructures"

D. Ferry, S. Pricl, D. Marson, Z. Chen, G. Canard, S. Pascal, A. Tintaru, O. Siri*

J. Porphyrins Phthalocyanines **2023**, 27, 1231–1240

DOI: [10.1142/S1088424623500785](https://doi.org/10.1142/S1088424623500785)

HAL archive: [hal-04046963](https://hal.archives-ouvertes.fr/hal-04046963)

[56] "Proton-Coupled Electron Transfer in a Pivaloyl-Substituted Dihydro-Tetraazapentacene"

J.-F. Longevial,* I. Knysh, S. Al Shehimi, L. Khrouz, A. Pandurangan, S. Pascal, G. Canard, C. Bucher,* D. Jacquemin,* O. Siri*

Electrochim. Acta **2023**, 449, 142224

DOI: [10.1016/j.electacta.2023.142224](https://doi.org/10.1016/j.electacta.2023.142224)

HAL archive: [hal-04117793](https://hal.archives-ouvertes.fr/hal-04117793)

[55] "Electrical monitoring of organic crystal phasetransition using MoS₂ field effect transistor"

I. Boulet, S. Pascal, F. Bedu, I. Ozerov, A. Ranguis, T. Leoni, C. Becker, L. Masson, A. Matkovic, C. Teichert, O. Siri, C. Attacalite, J.-R. Huntzinger, M. Paillet, A. Zahab, R. Parret*

Nanoscale Adv. **2023**, 5, 1681–1690

DOI: [10.1039/D2NA00817C](https://doi.org/10.1039/D2NA00817C)

HAL archive: [hal-04001075](https://hal.archives-ouvertes.fr/hal-04001075)

[54] "Deciphering electronic and structural effects in Copper Corrole/Graphene Hybrids"
K. Wrighton-Araneda, D. Cortés-Arriagada, P. Dreyse, S. Pascal, G. Canard,* L. Sanhueza*
Chem. Eur. J. **2023**, 29, e202203175 (1-13)
DOI: [10.1002/chem.202203175](https://doi.org/10.1002/chem.202203175)
HAL archive: [hal-03925693](https://hal.archives-ouvertes.fr/hal-03925693)

[53] "Circularly Polarized Luminescences of Encaged Eu(III) and Tb(III) Complexes Controlled by an Inherently Chiral Remote Unit"
E. Godart, O. Della-Negra, A. Long, A. Insuasty, L. Arrico, C. Benetti, E. Antonetti, P. Nava, Y. Cotellet, N. Vanthuyne, M. Jean, S. Pascal, J.-P. Dutasta,* L. Di Bari,* A. Martinez*
New J. Chem. **2022**, 46, 20154–20159
DOI: [10.1039/D2NJ02360A](https://doi.org/10.1039/D2NJ02360A)
HAL archive: [hal-03961762](https://hal.archives-ouvertes.fr/hal-03961762)

[52] "Fully Zwitterionic Diaminobenzoquinonediimines Promoted by Cyanoaromatic N-substituents"
T. Horáčková, M. H. E. Bousquet, A. Morice, U. Triballier, G. Canard, P. Lhoták, D. Jacquemin,* S. Pascal,* O. Siri*
Dyes Pigm. **2022**, 206, 110681 (1–8)
DOI: [10.1016/j.dyepig.2022.110681](https://doi.org/10.1016/j.dyepig.2022.110681)
HAL archive: [hal-03758293](https://hal.archives-ouvertes.fr/hal-03758293)

[51] "Covalent organic framework based on azacalix[4]arene for the efficient capture of dialysis waste products"
T. Skorjanc, D. Shetty,* F. Gándara, S. Pascal, N. Naleem, S. Abubakar, L. Ali, A. K. Mohammed, J. Raya, S. Kirmizialtin, O. Siri,* A. Trabolsi*
ACS Appl. Mater. Interfaces **2022**, 14, 39293–39298
DOI: [10.1021/acsami.2c06841](https://doi.org/10.1021/acsami.2c06841)
HAL archive: [hal-03758287](https://hal.archives-ouvertes.fr/hal-03758287)

[50] "NIR-to-NIR Two-Photon Bio-Imaging Using Very Bright Tailored Amino-Heptamethines Dyes"
S. Pascal,* S.-H. Chi, A. Grichine, V. Martel-Frchet, J. W. Perry, O. Maury, C. Andraud*
Dyes Pigm. **2022**, 203, 110369 (1–8)
DOI: [10.1016/j.dyepig.2022.110369](https://doi.org/10.1016/j.dyepig.2022.110369)
HAL archive: [hal-03656184](https://hal.archives-ouvertes.fr/hal-03656184)

[49] "Reversible pH-Controlled Catenation of a Benzobisimidazole-based Tetranuclear Rectangle"
M. Dekhtiarenko, S. Pascal,* M. Elhabiri, V. Mazan, D. Canevet, M. Allain, V. Carré, F. Aubriet, Z. Voitenko, M. Sallé,* O. Siri,* S. Goeb*
Chem. Eur. J. **2021**, 27, 15922–15927 (Hot paper)
DOI: [10.1002/chem.202103039](https://doi.org/10.1002/chem.202103039)
HAL archive: [hal-03335302](https://hal.archives-ouvertes.fr/hal-03335302)

[48] "Azacalixpyrins as an Innovative Alternative for the Free-Radical Photopolymerization under Visible and NIR Irradiation without the Need of Co-Initiators"
L. Breloy, R. Mhanna, J.-P. Malval, V. Brezova, D. Jacquemin,* S. Pascal, O. Siri,* D.-L. Versace*
Chem. Commun. **2021**, 57, 8973–8976
DOI: [10.1039/D1CC03607F](https://doi.org/10.1039/D1CC03607F)
HAL archive: [hal-03318918](https://hal.archives-ouvertes.fr/hal-03318918)

[47] "Functionalized Porphyrins from Meso-poly-halogeno-alkyl-dipyrromethanes: Synthesis and Characterizations"
P.-G. Julliard, S. Pascal, O. Siri, D. Cortés-Arriagada, L. Sanhueza,* G. Canard*
C. R. Chimie **2021**, 24, 27–45
DOI: [10.5802/crchim.97](https://doi.org/10.5802/crchim.97)
HAL archive: [hal-03315787](https://hal.archives-ouvertes.fr/hal-03315787)

[46] "Modified Indulines: From Dyestuffs to *in vivo* Theranostic Agents"
Z. Chen, S. Pascal, M. Daurat, L. Lichon, C. Nguyen, A. Godefroy, D. Durand, L. M. A. Ali, N. Bettache, M. Gary-Bobo,* P. Arnoux, J.-F. Longevial, A. D'Aléo, G. Marchand, D. Jacquemin,* O. Siri*
ACS Appl. Mater. Interfaces **2021**, 13, 30337–30349
DOI: [10.1021/acsami.1c05933](https://doi.org/10.1021/acsami.1c05933)
HAL archive: [hal-03269501](https://hal.archives-ouvertes.fr/hal-03269501)

[45] "Significance Of Nuclear Quantum Effects In Hydrogen Bonded Molecular Chains"
A. Cahlik, J. Hellerstedt, J. I. Mendieta-Moreno, M. Švec, V. M. Santhini, S. Pascal, D. Soler-Polo, S. Erlingsson, K. Výborný, P. Mutombo, O. Marsalek, O. Siri,* P. Jelínek*
ACS Nano **2021**, 15, 10357–10365
DOI: [10.1021/acsnano.1c02572](https://doi.org/10.1021/acsnano.1c02572)
HAL archive: [hal-03236333](https://hal.archives-ouvertes.fr/hal-03236333)

[44] "The Quinonoid Zwitterion Interlayer for the Improvement of Charge Carrier Mobility in Organic Field-Effect Transistors"
A. Luczak, A. Torres Ruiz, S. Pascal, A. Adamski, J. Jung, B. Luszczynska,* O. Siri*
Polymers **2021**, 13, 1567
DOI: [10.3390/polym13101567](https://doi.org/10.3390/polym13101567)
HAL archive: [hal-03226245](https://hal.archives-ouvertes.fr/hal-03226245)

[43] "Near-Infrared Dyes for Two-Photon Absorption in the Short-Wavelength Infrared: Strategies Towards Optical Power Limiting"
S. Pascal,* S. David, C. Andraud, O. Maury*
Chem. Soc. Rev. **2021**, 50, 6613–6658
DOI: [10.1039/d0cs01221a](https://doi.org/10.1039/d0cs01221a)
HAL archive: [hal-03197147](https://hal.archives-ouvertes.fr/hal-03197147)

[42] "Stabilization of a 12- π Electrons Diamino-Benzoquinonediimine Tautomer"
J. F. Longevial, Z. Chen, S. Pascal, G. Canard, D. Jacquemin,* O. Siri*

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S. Pascal,* S.-H. Chi, J. W. Perry, C. Andraud,* O. Maury*

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[39] "Mixed *N*-Aryl/Alkyl Substitution Favours an Unusual Tautomer of Near-Infrared Absorbing Azacalixpyrins"

L. Lavaud, C. Azarias, G. Canard, S. Pascal,* D. Jacquemin,* O. Siri*

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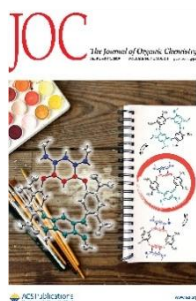
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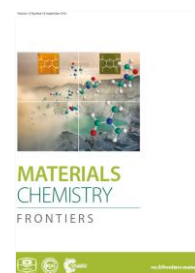
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ORAL COMMUNICATIONS & INVITED SEMINARS

[44] "Cyanide & Chill: How a Macrocyclic Learned to Let Go"

Communication (25 min) – Journée de la Plateforme RMN du CEISAM – Nantes, France – 12 June 2026

[43] "Azacalixarene's Midlife Crisis: cyanide capture and spontaneous liberation"

Communication (15 min) – 4^e Journée de Chimie Supramoléculaire – Marseille, France – 28-29 May 2026

[42] "Coupled Polymethines in a New Light"

Invited Lecture (45 min) – ICMUB – Dijon, France – 9 September 2025

[41] "Coupled Polymethine Dyes: Always Room for a Second Slice of π "

Invited Lecture (45 min) – Moltech-Anjou – Angers, France – 13 June 2025

[40] "Coupled Polymethines: Let's Have a Second Slice of π "

Communication (15 min) – Science et Technologie des Systèmes π -Conjugués (SPIC 2025) – Paris, France – 20-23 Janvier 2025

[39] "From Notes to Chords: What is the Impact of Coupling Polymethine Dyes?"

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[38] "Design of Quinoid and Coupled Polymethine Dyes"

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[37] "Spotlights on Near-Infrared Dyes"

Invited Lecture (45 min) – WeDoc Webinars – Normandy Doctoral School – 11 Septembre 2024

[36] "Extended Coupled Polymethines: A New Class of Cyanine Dyes"

Communication (15 min) – CEISAM Day – Nantes, France – 4 Juillet 2024

[35] "A Coupling Strategy to Access Compact Near-IR Organic Dyes"

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[34] "Colorful Zwitterions Built Around Quinoidal Rings"

Communication (15 min) – SCF 2023 Congress – Nantes, France – 26 Juin 2023

[33] "Quinoid Dyes Derived From Coupled Polymethines: a Colorful Exploration"

Invited Lecture (40 min) – Institut des Sciences Chimiques de Rennes – France – 21 Juin 2023

[32] "Quinonediimine-Based Oligomers and Wires"

Communication (20 min) – 6th International Workshop on Nano- and Bio-Photonics (IWNBP) – Evian-Les-Bains, France – 26 September 2022

[31] "Coupled Polymethines and Quinones: a colorful journey towards the Near-Infrared"

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[30] "Benzobisimidazole-based Supramolecular Architectures"

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[29] "Quinonediimine ligands: from oligomeric coordination complexes in solution to molecular wires on surfaces"

Oral communication (20 min) – 10th International Conference on Molecular Electronics (ELECTMOL) – Lyon – December 1st, 2021

[28] "Stable (Poly-)Zwitterionic Quinoidal and Macrocyclic Dyes"

Oral communication (15 min) – Journée des Chargés de Recherche de l'Institut de Chimie – CNRS, Meudon – October 25-26, 2021

[27] "Benzobisimidazole-based Tetranuclear Rectangles"

Oral communication (20 min) – Supra-Mars seminar – ICR, Marseille – October 15, 2021

[26] "Small & Macrocyclic Zwitterionic Quinones"

Oral communication (25 min) – Supra-Mars seminar – CINA-M, Marseille – July 2, 2021

[25] "Azacalixphyrins: from NIR-I to NIR-II Macrocycles and Photoacoustic Contrast Agents"

Oral communication (15 min) – SP2P PhotOnline (webinar) – October 15, 2020

[24] "Remarkable Dyes in Quinoid Chemistry: From Small to Macrocyclic Zwitterions"

Invited Lecture (50 min) – Laboratoire de Chimie, ENS Lyon – February 12, 2020

[23] "An Overview of Visible to Near-Infrared Organic Dyes: From Molecular Design to Modern Applications"

Invited Lecture (45 min) – Vulgarisation Lecture for 1st year students – IUT Chimie Marseille – January 29, 2020

[22] "Unconventional and Colorful Zwitterions: From Principles to Applications"

Invited Lecture (45 min) – Łódź University of Technology – Łódź, Poland – November 22, 2019

[21] "What's New In Benzoquinone Imine Chemistry ?"

Oral communication (10 min) – CINaM laboratory day – Marseille, France – October 10, 2019

[20] "Unconventional and Colorful Zwitterions illustrating the Coupling Principle in Polymethine dyes"

Oral communication (20 min) – 5th International Workshop on nano- and bio-photonics (IWNBP) – St Nectaire, France – Sept. 22, 2019

[19] "Zwitterionic Quinone-based Chromophores and Macrocycles"

Oral communication (25 min) – Sixth International Workshop on Advanced, Nano- and Biomaterials and Their Applications (NABM 2019) – Cluj Napoca, Romania – May 14, 2019

[18] "Porphyrin Analogues at the CINaM: Corroles and Azacalixpyrins"

Oral communication (20 min) – GDR Macrocycles Pyrroliques (MAPYRO) – Rennes, France – May 4, 2019

[17] "Zwitterionic Quinones: an Unprecedented Class of Coupled Polymethines"

Seminar (60 min) – TSN laboratory – Marseille, France – February 26, 2019

[16] "Controlling the Canonical/Zwitterionic Balance: a New Strategy for Vapochromism"

Oral communication (15 min) – RCOM10 – Marseille, France – May 24, 2018

[15] "New Cases of Zwitterions in Quinoid Chemistry"

Oral communication (15 min) – 4th International Workshop on nano- and bio-photonics (IWNBP) and French-Korean meeting on functional materials (FUNMOOD) – Vogüe, France – September 28, 2017

[14] "Late-stage functionalization of cationic [4]helicenes: from (chir)optical tuning to enantiospecific syntheses of higher order helicenes"

Oral communication (25 min) – Symposium on Macrocycles – CEISAM, University of Nantes, France – February 9, 2017

[13] "Red-to-NIR polymethine dyes: new concepts toward optical applications and extension to helical architectures"

Invited Lecture (45 min) – P2DA laboratory – University of Dijon, France – November, 2015

[12] "Red-to-NIR polymethine dyes: new concepts toward optical applications and extension to helical architectures"

Invited Lecture (45 min) – CINaM laboratory – Aix-Marseille Univ., France – September 11, 2015

[11] "Polymethine dyes: structure-properties relationships for applications in nonlinear optics"

Invited Lecture (40 min) – OMC laboratory – University of Rennes 1, France – February, 2015

[10] "Near-infrared polymethine dyes for nonlinear optics"

Seminar (60 min) – Lacour group – University of Geneva, Switzerland – November, 2014

[9] "On the versatility of electronic structures in polymethine dyes"

Oral communication (15 min) – SPIE Security+Defense and Remote Sensing – Amsterdam, Nederland – September, 2014

[8] "Rationalize and predict the optical behavior of polymethine dyes"

Oral communication (20 min) – Chemistry Summer School: Goethe Universitat Frankfurt / ENS Lyon – Lyon, France – June, 2014

[7] "Round trip beyond the cyanine limit"

Oral communication (15 min) – Autumn days of the French Photochemistry, Photophysics and Photosciences Group (GFP2P) – Orsay, France – November, 2013

[6] "Round trip beyond the cyanine limit"

Oral communication (15 min) – 2nd International Workshop on nano- and bio-photonics (IWNBP) and French-Korean meeting on functional materials (FUNMOOD) – Biarritz, France – November, 2013

[5] "Heptamethine dyes for bio-imaging in the near-infrared by two-photon excited fluorescence"

Oral communication (15 min) – Microscopy and life imaging symposium (GDR 2588) – Lyon, France – July, 2013

[4] "Tuning of heptamethines optical properties: a new cyanine paradigm"

Oral communication (20 min) – ENS Lyon PhD day – Lyon, France – May, 2013

[3] "Two-photon absorption in the near-infrared spectral range: towards optical limiting applications"

Oral communication (20 min) – Coordination chemistry days of the French Chemical Society (SCF) – Lyon, France – February, 2013

[2] "Two-photon absorption in the near-infrared spectral range: towards bio-imaging and optical limiting applications"

Seminar (40 min) – ENS Chemistry laboratory – Lyon, France – January, 2013

[1] "Cyanines and aza-BODIPY for two-photon absorption at telecommunication wavelengths"

Seminar (60 min) – Marder group – GeorgiaTech, Atlanta, USA – October, 2012

POSTERS (personally presented)

[20] "Coupled Polymethine Dyes: Let's Have a Second Slice of π "
SCF 2026 Congress – Bordeaux, France– 22-24
Juin 2026

[19] "Low Molecular Weight Red-NIR Chromophores Based on Coupled Polymethine"
Ecole thématique PhotoElectro 2 – Saint-Pierre
d'Oléron, France – 1-5 Juin 2026

[18] "Bis-Meisenheimer Azacalixarene: Exploration of an Unprecedented Dissipative System"
Journées de Chimie Organique – Palaiseau,
France – 29-31 Octobre 2025

[17] "Low Molecular Weight Red-NIR Chromophores Based on Coupled Polymethine"
CEISAM congress – Nantes, France – 12-13 Mars
2025

[16] "Design of Coupled Heptamethine-Oxonol Dyes Coupled Polymethines: A New Class of Cyanine Dyes"
Journées communes des GDR Solar Fuels et Photo
Electro Stimulation – Grenoble, France – 24-26
Juin 2024

[15] "Extended Coupled Polymethines: A New Class of Cyanine Dyes"
Journées scientifiques de la division SCF Bretagne
Pays de la Loire (SCF-BPL) – Logonna-Daoulas,
France – 10-12 Juin 2024

[14] "Design of Macrocyclic Zwitterionic Chromophores Inspired by the Coupled Polymethines"
Science et Technologie des Systèmes π -
Conjugués (SPIC 2023) – Saint Malo, France – 5-8
Décembre 2023

[13] "Quinonediimine ligands for the design of oligomeric coordination complexes and molecular wires"
10^{èmes} Journées Franco-Italiennes de Chimie –
Toulon, France – 26-27 Avril 2022

[12] "Quinonediimine Ligands to Access Multinuclear Complexes that Reach Far-Red and Near-Infrared Absorptions"
Journées de Chimie de Coordination SCF (JCC
2020) – Marseille, France – January 23-24, 2020

[11] "Remarkable Zwitterions in Quinoid Chemistry: Fundamental Principles, Synthesis and Applications"

Journées de Chimie Organique SCF (JCO 2019) –
Palaiseau, France – October 29-31, 2019

[10] "Azacalixquinarenes: (Poly-)Zwitterionic Macrocycles Inspired from Vapochromic Quinones"
"Emerging Azacalixphyrins: from Chemical Engineering Towards Near-Infrared Photoacoustic Contrast Agents"
15th International Conference on Calixarenes (CALIX-2019) – Cassis, France – June 10-14, 2019

[9] "Quinoids for emerging applications: gas sensing and photoacoustic imaging"
GDR « organic electronics for the new era » (OERA) – Aix-en-Provence, France – October, 2018

[8] "Polymethines: old dyes for modern applications in the near infra-red"
4th International Workshop on nano- and biophotonics (IWNBP) and French-Korean meeting on functional materials (FUNMOOD) – Vogüe, France – September, 2017

[7] "North functionalization of cationic [4]helicenes: unique tuning of properties for (chir)optical applications up to the far-red range"
"South functionalization of cationic [4]helicenes: straightforward access to extended [5] and [6] helicenes"
28th ISCD (Chirality 2016) – Heidelberg, Germany – July, 2016

[6] "Keto-heptamethines for NIR-to-NIR bio-imaging using two-photon excitation"
French Chemical Society Days (SCF), Rhône-Alpes section – Chambéry, France – June, 2014

[5] "NMR study of heptamethine dyes: evidences for charge localization and ion pairing"
XIVth Rhône-Alpes NMR Day – Lyon, France – May, 2013

[4] "Two-photon absorption in the near-infrared spectral range: towards bio-imaging applications"
Chemistry Doctoral School Day – Lyon, France – April, 2013

[3] "Two-photon absorption in the near-infrared spectral range: towards bio-imaging and optical limiting applications"

Symposium "Tomorrow, towards a selected chemistry" – Lyon, France – December, 2012

[2] "Symmetry breaking in heptamethine cyanine dyes: toward bio-imaging applications"

French Chemical Society Days (SCF), Rhône-Alpes section – Lyon, France – June, 2012

[1] "Design and synthesis of near infrared dyes for bio-imaging and optical limiting applications"

ENS PhD day – Lyon, France – March, 2012