

# Francisco Bosca

## List of Publications by Year in descending order

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75  
papers

2,315  
citations

186265

28  
h-index

223800

46  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1624  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Assessing physical properties of amphoteric fluoroquinolones using phosphorescence spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117569.         | 3.9 | 5         |
| 2  | Chemical tuning for potential antitumor fluoroquinolones. <i>Free Radical Biology and Medicine</i> , 2019, 141, 150-158.   | 2.9 | 2         |
| 3  | Excited-State Pathways of Four-coordinate N,C-chelate Organoboron Dyes. <i>ChemPhotoChem</i> , 2018, 2, 34-41.   | 3.0 | 13        |
| 4  | Drug-DNA complexation as the key factor in photosensitized thymine dimerization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4951-4955.   | 2.8 | 6         |
| 5  | Biradical vs singlet oxygen photogeneration in suprofen-cholesterol systems. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1196-1202.  | 2.2 | 1         |
| 6  | Analysis of mebendazole binding to its target biomolecule by laser flash photolysis. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 155, 1-6.  | 3.8 | 7         |
| 7  | Drug-tubulin interactions interrogated by transient absorption spectroscopy. <i>RSC Advances</i> , 2015, 5, 49451-49458.   | 3.6 | 3         |
| 8  | Steric shielding vs. $\pi$ - $\pi$ orbital interactions in triplet-triplet energy transfer. <i>Chemical Science</i> , 2015, 6, 4035-4041.  | 7.4 | 6         |
| 9  | A Photochemical Approach to Fluoroquinolones Toxicity. <i>Advances in Molecular Toxicology</i> , 2015, 9, 259-280.   | 0.4 | 0         |
| 10 | A molecular insight into the phototoxic reactions observed with vemurafenib, a first-line drug against metastatic melanoma. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 2119-2127.       | 2.9 | 10        |
| 11 | Understanding of the Photoallergic Properties of Fluoroquinolones: Photoreactivity of Lomefloxacin with Amino Acids and Albumin. <i>Chemical Research in Toxicology</i> , 2014, 27, 514-523.               | 3.3 | 13        |
| 12 | Seeking the mechanism responsible for fluoroquinolone photomutagenicity: a pulse radiolysis, steady-state, and laser flash photolysis study. <i>Free Radical Biology and Medicine</i> , 2014, 67, 417-425. | 2.9 | 15        |
| 13 | Size-controlled photochemical synthesis of niobium nanoparticles. <i>Dalton Transactions</i> , 2013, 42, 14049.  | 3.3 | 6         |
| 14 | Antineoplastic tropolone derivatives as useful biomarkers: fluorescence enhancement upon binding to biological targets. <i>RSC Advances</i> , 2013, 3, 12031.  | 3.6 | 2         |
| 15 | Behavior of Drug Excited States within Macromolecules: Binding of Colchicine and Derivatives to Albumin. <i>Journal of Physical Chemistry B</i> , 2013, 117, 7528-7534.                                    | 2.6 | 5         |
| 16 | Photoreactivity of Fluoroquinolones: Nature of Aryl Cations Generated in Water. <i>Organic Letters</i> , 2012, 14, 3940-3943.  | 4.6 | 13        |
| 17 | Seeking to Shed Some Light on the Binding of Fluoroquinolones to Albumins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 3504-3511.  | 2.6 | 24        |
| 18 | Triplet Excimers of Fluoroquinolones in Aqueous Media. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5030-5038.  | 2.5 | 15        |

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|----|---|------|-----------|
| 19 | Photosensitized pyrimidine dimerisation in DNA. <i>Chemical Science</i> , 2011, 2, 1219.  | 7.4  | 96        |
| 20 | Solvent Effects in Hydrogen Abstraction from Cholesterol by Benzophenone Triplet Excited State. <i>Organic Letters</i> , 2011, 13, 4096-4099.   | 4.6  | 12        |
| 21 | Photosensitized DNA Damage: The Case of Fluoroquinolones. <i>Photochemistry and Photobiology</i> , 2009, 85, 861-868.   | 2.5  | 66        |
| 22 | Tricationic Porphyrin Conjugates: Evidence for Chain-Structure-Dependent Relaxation of Excited Singlet and Triplet States. <i>Journal of Physical Chemistry B</i> , 2009, 113, 16695-16704.   | 2.6  | 7         |
| 23 | Cholesterol-diaryl ketone stereoisomeric dyads as models for type I and type II photooxygenation mechanisms. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 860.  | 2.8  | 18        |
| 24 | Photophysical properties of a photocytotoxic fluorinated chlorin conjugated to four $\beta$ -cyclodextrins. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 834-843.   | 2.9  | 32        |
| 25 | Triplet Reactivity and Regio-/Stereo-selectivity in the Macrocyclization of Diastereomeric Ketoprofen-Quencher Conjugates via Remote Hydrogen Abstractions. <i>Journal of the American Chemical Society</i> , 2007, 129, 7407-7420.               | 13.7 | 36        |
| 26 | Triplet Excited Fluoroquinolones as Mediators for Thymine Cyclobutane Dimer Formation in DNA. <i>Journal of Physical Chemistry B</i> , 2007, 111, 7409-7414.  | 2.6  | 70        |
| 27 | Stereodifferentiating Drug-Biomolecule Interactions in the Triplet Excited State: Studies on Supramolecular Carprofen/Protein Systems and on Carprofen-Tryptophan Model Dyads. <i>Journal of Physical Chemistry B</i> , 2007, 111, 423-431.       | 2.6  | 47        |
| 28 | Role of Excited State Intramolecular Charge Transfer in the Photophysical Properties of Norfloxacin and Its Derivatives. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2607-2612.   | 2.5  | 44        |
| 29 | Primary steps of the photochemical reactions of 2-cyano-10-(3-[dimethylamino]) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 352 Td (neuroleptic: comparison with the sulfoxide). <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 336. | 2.9  | 7         |
| 30 | Efficient and Selective Photogeneration of Cholesterol-Derived Radicals by Intramolecular Hydrogen Abstraction in Model Dyads. <i>Organic Letters</i> , 2006, 8, 4597-4600.   | 4.6  | 18        |
| 31 | Generation of Detectable Singlet Aryl Cations by Photodehalogenation of Fluoroquinolones. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6441-6443.  | 2.6  | 31        |
| 32 | The Triplet Energy of Thymine in DNA. <i>Journal of the American Chemical Society</i> , 2006, 128, 6318-6319.   | 13.7 | 99        |
| 33 | Primary Photochemical Processes of the Phototoxic Neuroleptic Cyamemazine: A Study by Laser Flash Photolysis and Steady-state Irradiation. <i>Photochemistry and Photobiology</i> , 2004, 80, 535.  | 2.5  | 9         |
| 34 | Stereodifferentiation in the Decay of Triplets and Biradicals Involved in Intramolecular Hydrogen Transfer from Phenols or Indoles to $^1\text{C}=\text{C}^*$ Aromatic Ketones. <i>Journal of Organic Chemistry</i> , 2004, 69, 374-381.          | 3.2  | 28        |
| 35 | Human Serum Albumin-Mediated Stereodifferentiation in the Triplet State Behavior of (S)- and (R)-Carprofen. <i>Journal of the American Chemical Society</i> , 2004, 126, 9538-9539.   | 13.7 | 96        |
| 36 | Geometrical Effects on the Intramolecular Quenching of $^1\text{C}=\text{C}^*$ Aromatic Ketones by Phenols and Indoles. <i>Journal of Organic Chemistry</i> , 2004, 69, 8618-8625.  | 3.2  | 22        |

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|----|--|------|-----------|
| 37 | Photonucleophilic Aromatic Substitution of 6-Fluoroquinolones in Basic Media: Triplet Quenching by Hydroxide Anion. <i>Journal of Organic Chemistry</i> , 2004, 69, 7256-7261.                                       | 3.2  | 41        |
| 38 | Primary Photochemical Processes of the Phototoxic Neuroleptic Cyamemazine: A Study by Laser Flash Photolysis and Steady-state Irradiation. <i>Photochemistry and Photobiology</i> , 2004, 80, 535.                   | 2.5  | 5         |
| 39 | Diastereomeric Differentiation in the Quenching of Excited States by Hydrogen Donors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2531-2534.  | 13.8 | 29        |
| 40 | Photochemical Properties of Ofloxacin Involved in Oxidative DNA Damage: A Comparison with Rufloxacin. <i>Chemical Research in Toxicology</i> , 2003, 16, 562-570.  | 3.3  | 52        |
| 41 | Photoreaction between 2-Benzoylthiophene and Phenol or Indole. <i>Journal of Organic Chemistry</i> , 2003, 68, 5104-5113.  | 3.2  | 46        |
| 42 | Chiral discrimination in the intramolecular abstraction of allylic hydrogens by benzophenone triplets. <i>Chemical Communications</i> , 2003, , 1592-1593.   | 4.1  | 26        |
| 43 | A Laser Flash Photolysis Study of Fenofibric Acid in Aqueous Buffered Media: Unexpected Triplet State Inversion in a Derivative of 4-Alkoxybenzophenone. <i>Photochemistry and Photobiology</i> , 2002, 75, 193.     | 2.5  | 11        |
| 44 | Type II Guanine Oxidation Photoinduced by the Antibacterial Fluoroquinolone Rufloxacin in Isolated DNA and in 2'-Deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2002, 15, 1142-1149.                       | 3.3  | 33        |
| 45 | Inversion of 4-methoxybenzophenone triplet in aqueous solutions. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 704-708.   | 2.9  | 34        |
| 46 | Stereoselective intramolecular hydrogen abstraction by a chiral benzophenone derivative. <i>Chemical Communications</i> , 2002, , 280-281.   | 4.1  | 21        |
| 47 | Irreversible photo-oxidation of propranolol triggered by self-photogenerated singlet molecular oxygen. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 136-140.   | 2.9  | 25        |
| 48 | A Laser Flash Photolysis Study of Fenofibric Acid in Aqueous Buffered Media: Unexpected Triplet State Inversion in a Derivative of 4-Alkoxybenzophenone. <i>Photochemistry and Photobiology</i> , 2002, 75, 193-200. | 2.5  | 1         |
| 49 | Photoinduced N-Demethylation of Rufloxacin and its Methyl Ester Under Aerobic Conditions. <i>Photochemistry and Photobiology</i> , 2002, 76, 252.  | 2.5  | 20        |
| 50 | Photoreactivity of the Nonsteroidal Anti-inflammatory 2-Arylpropionic Acids with Photosensitizing Side Effects. <i>Photochemistry and Photobiology</i> , 2001, 74, 637.  | 2.5  | 145       |
| 51 | Photoreactivity of the Nonsteroidal Anti-inflammatory 2-Arylpropionic Acids with Photosensitizing Side Effects. <i>Photochemistry and Photobiology</i> , 2001, 74, 637-655.  | 2.5  | 6         |
| 52 | Substituent effects on electrophilicity of flavins: an experimental and semi-empirical molecular orbital study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 55, 183-187.                    | 3.8  | 5         |
| 53 | Involvement of type I and type II mechanisms in the linoleic acid peroxidation photosensitized by tiaprofenic acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 58, 1-5.                    | 3.8  | 19        |
| 54 | Photobinding of carprofen to protein. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 58, 13-19.  | 3.8  | 15        |

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|----|---|------|-----------|
| 55 | Regio- and stereo-selectivity in the intramolecular quenching of the excited benzoylthiophene chromophore by tryptophan. <i>Chemical Communications</i> , 2000, , 2257-2258.  | 4.1  | 22        |
| 56 | Effects of Surfactants on Reduction and Photolysis (>290 nm) of Nitroaromatic Compounds. <i>Environmental Science &amp; Technology</i> , 2000, 34, 505-508.   | 10.0 | 40        |
| 57 | A Laser Flash Photolysis Study on Fenofibric Acid. <i>Photochemistry and Photobiology</i> , 1999, 70, 853-857.  | 2.5  | 18        |
| 58 | Enantioselective Discrimination in the Intramolecular Quenching of an Excited Aromatic Ketone by a Ground-State Phenol. <i>Journal of the American Chemical Society</i> , 1999, 121, 11569-11570.                                     | 13.7 | 38        |
| 59 | Photochemistry of 2,6-Dichlorodiphenylamine and 1-Chlorocarbazole, the Photoactive Chromophores of Diclofenac, Meclofenamic Acid and Their Major Photoproducts. <i>Photochemistry and Photobiology</i> , 1998, 68, 640-645.           | 2.5  | 9         |
| 60 | Photochemistry and Photobiological Properties of Dicloran, a Postharvest Fungicide with Photosensitizing Side Effects. <i>Photochemistry and Photobiology</i> , 1998, 67, 532-537.  | 2.5  | 6         |
| 61 | New Trends in Photobiology (Invited Review) Photosensitizing drugs containing the benzophenone chromophore. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1998, 43, 1-26.  | 3.8  | 200       |
| 62 | Drug-Photosensitized Protein Modification: Identification of the Reactive Sites and Elucidation of the Reaction Mechanisms with Tiaprofenic Acid/Albumin as Model System. <i>Chemical Research in Toxicology</i> , 1998, 11, 172-177. | 3.3  | 44        |
| 63 | Phototoxicity Associated with Diclofenac: A Photophysical, Photochemical, and Photobiological Study on the Drug and Its Photoproducts. <i>Chemical Research in Toxicology</i> , 1998, 11, 946-952.                                    | 3.3  | 72        |
| 64 | Photochemistry and Photobiological Properties of Dicloran, a Postharvest Fungicide with Photosensitizing Side Effects. <i>Photochemistry and Photobiology</i> , 1998, 67, 532-537.  | 2.5  | 9         |
| 65 | Photochemistry of 2,6-Dichlorodiphenylamine and 1-Chlorocarbazole, the Photoactive Chromophores of Diclofenac, Meclofenamic Acid and Their Major Photoproducts. <i>Photochemistry and Photobiology</i> , 1998, 68, 640.               | 2.5  | 21        |
| 66 | Photophysical and Photochemical Characterization of a Photosensitizing Drug: A Combined Steady State Photolysis and Laser Flash Photolysis Study on Carprofen. <i>Chemical Research in Toxicology</i> , 1997, 10, 820-827.            | 3.3  | 47        |
| 67 | Evaluation of ketoprofen (R, S and ) phototoxicity by a battery of in vitro assays. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1995, 31, 133-138.   | 3.8  | 33        |
| 68 | Unusual (1,2) wittig rearrangement of a carbanion generated in neutral aqueous medium by photodecarboxylation of a phenoxyacetic acid analogue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1994, 78, 149-151.   | 3.9  | 11        |
| 69 | PHOTOCHEMICAL AND PHOTOBIOLOGICAL PROPERTIES OF KETOPROFEN ASSOCIATED WITH THE BENZOPHENONE CHROMOPHORE. <i>Photochemistry and Photobiology</i> , 1994, 60, 96-101.   | 2.5  | 148       |
| 70 | In vitro phototoxicity of clofibrate. Photochemical and photohemolytic studies on its metabolite clofibric acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1993, 21, 61-67.                                      | 3.8  | 9         |
| 71 | Synthesis of a new 1,4-dihydropyridine containing the imidazo[1,5-a]pyridine nucleus. <i>Journal of Heterocyclic Chemistry</i> , 1993, 30, 473-476.   | 2.6  | 8         |
| 72 | Photosensitivity induced by fibric acid derivatives and its relation to photocontact dermatitis to ketoprofen. <i>Journal of the American Academy of Dermatology</i> , 1992, 27, 204-208.   | 1.2  | 62        |

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|----|--|-----|-----------|
| 73 | Photochemistry of Tiaprofenic Acid, a Nonsteroidal Anti-inflammatory Drug with Phototoxic Side Effects. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 181-182.             | 3.3 | 19        |
| 74 | Oxidative decarboxylation of naproxen. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 479-482.  | 3.3 | 26        |
| 75 | New photodegradation pathways for Naproxen, a phototoxic non-steroidal anti-inflammatory drug. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1990, 54, 131-134. | 3.9 | 55        |