

# 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	New Trends in Photobiology (Invited Review) Photosensitizing drugs containing the benzophenone chromophore. Journal of Photochemistry and Photobiology B: Biology, 1998, 43, 1-26.	3.8	200
2	PHOTOCHEMICAL AND PHOTOBIOLOGICAL PROPERTIES OF KETOPROFEN ASSOCIATED WITH THE BENZOPHENONE CHROMOPHORE. Photochemistry and Photobiology, 1994, 60, 96-101.	2.5	148
3	Photoreactivity of the Nonsteroidal Anti-inflammatory 2-Arylpropionic Acids with Photosensitizing Side Effects. Photochemistry and Photobiology, 2001, 74, 637.	2.5	145
4	The Triplet Energy of Thymine in DNA. Journal of the American Chemical Society, 2006, 128, 6318-6319.	13.7	99
5	Human Serum Albumin-Mediated Stereodifferentiation in the Triplet State Behavior of (S)- and (R)-Carprofen. Journal of the American Chemical Society, 2004, 126, 9538-9539.	13.7	96
6	Photosensitized pyrimidine dimerisation in DNA. Chemical Science, 2011, 2, 1219.	7.4	96
7	Phototoxicity Associated with Diclofenac: A Photophysical, Photochemical, and Photobiological Study on the Drug and Its Photoproducts. Chemical Research in Toxicology, 1998, 11, 946-952.	3.3	72
8	Triplet Excited Fluoroquinolones as Mediators for Thymine Cyclobutane Dimer Formation in DNA. Journal of Physical Chemistry B, 2007, 111, 7409-7414.	2.6	70
9	Photosensitized DNA Damage: The Case of Fluoroquinolones. Photochemistry and Photobiology, 2009, 85, 861-868.	2.5	66
10	Photosensitivity induced by fibric acid derivatives and its relation to photocontact dermatitis to ketoprofen. Journal of the American Academy of Dermatology, 1992, 27, 204-208.	1.2	62
11	New photodegradation pathways for Naproxen, a phototoxic non-steroidal anti-inflammatory drug. Journal of Photochemistry and Photobiology A: Chemistry, 1990, 54, 131-134.	3.9	55
12	Photochemical Properties of Ofloxacin Involved in Oxidative DNA Damage: A Comparison with Rufloxacin. Chemical Research in Toxicology, 2003, 16, 562-570.	3.3	52
13	Photophysical and Photochemical Characterization of a Photosensitizing Drug: A Combined Steady State Photolysis and Laser Flash Photolysis Study on Carprofen. Chemical Research in Toxicology, 1997, 10, 820-827.	3.3	47
14	Stereodifferentiating Drug-Biomolecule Interactions in the Triplet Excited State: Studies on Supramolecular Carprofen/Protein Systems and on Carprofen-Tryptophan Model Dyads. Journal of Physical Chemistry B, 2007, 111, 423-431.	2.6	47
15	Photoreaction between 2-Benzoylthiophene and Phenol or Indole. Journal of Organic Chemistry, 2003, 68, 5104-5113.	3.2	46
16	Drug-Photosensitized Protein Modification: Identification of the Reactive Sites and Elucidation of the Reaction Mechanisms with Tiaprofenic Acid/Albumin as Model System. Chemical Research in Toxicology, 1998, 11, 172-177.	3.3	44
17	Role of Excited State Intramolecular Charge Transfer in the Photophysical Properties of Norfloxacin and Its Derivatives. Journal of Physical Chemistry A, 2006, 110, 2607-2612.	2.5	44
18	Photonucleophilic Aromatic Substitution of 6-Fluoroquinolones in Basic Media: Triplet Quenching by Hydroxide Anion. Journal of Organic Chemistry, 2004, 69, 7256-7261.	3.2	41

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19	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
20	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
21	Triplet Reactivity and Regio-/Stereoselectivity in the Macrocyclization of Diastereomeric Ketoprofen <sup>α</sup> Quencher Conjugates via Remote Hydrogen Abstractions. <i>Journal of the American Chemical Society</i> , 2007, 129, 7407-7420.	13.7	36
22	Inversion of 4-methoxybenzophenone triplet in aqueous solutions. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 704-708.	2.9	34
23	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
24	Type II Guanine Oxidation Photoinduced by the Antibacterial Fluoroquinolone Rifaximin in Isolated DNA and in 2'-Deoxyguanosine. <i>Chemical Research in Toxicology</i> , 2002, 15, 1142-1149.	3.3	33
25	Photophysical properties of a photocytotoxic fluorinated chlorin conjugated to four β-cyclodextrins. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 834-843.	2.9	32
26	Generation of Detectable Singlet Aryl Cations by Photodehalogenation of Fluoroquinolones. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6441-6443.	2.6	31
27	Diastereomeric Differentiation in the Quenching of Excited States by Hydrogen Donors. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 2531-2534.	13.8	29
28	Stereodifferentiation in the Decay of Triplets and Biradicals Involved in Intramolecular Hydrogen Transfer from Phenols or Indoles to <sup>1</sup> Δ <sup>g</sup> Aromatic Ketones. <i>Journal of Organic Chemistry</i> , 2004, 69, 374-381.	3.2	28
29	Oxidative decarboxylation of naproxen. <i>Journal of Pharmaceutical Sciences</i> , 1992, 81, 479-482.	3.3	26
30	Chiral discrimination in the intramolecular abstraction of allylic hydrogens by benzophenone triplets. <i>Chemical Communications</i> , 2003, , 1592-1593.	4.1	26
31	Irreversible photo-oxidation of propranolol triggered by self-generated singlet molecular oxygen. <i>Photochemical and Photobiological Sciences</i> , 2002, 1, 136-140.	2.9	25
32	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
33	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
34	Geometrical Effects on the Intramolecular Quenching of <sup>1</sup> Δ <sup>g</sup> Aromatic Ketones by Phenols and Indoles. <i>Journal of Organic Chemistry</i> , 2004, 69, 8618-8625.	3.2	22
35	Stereoselective intramolecular hydrogen abstraction by a chiral benzophenone derivative. <i>Chemical Communications</i> , 2002, , 280-281.	4.1	21
36	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

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37	Photoinduced N-Demethylation of Rufloxacin and its Methyl Ester Under Aerobic Conditions. <i>Photochemistry and Photobiology</i> , 2002, 76, 252.	2.5	20
38	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
39	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
40	A Laser Flash Photolysis Study on Fenofibric Acid. <i>Photochemistry and Photobiology</i> , 1999, 70, 853-857.	2.5	18
41	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
42	Cholesterol-diaryl ketone stereoisomeric dyads as models for clean type I and type II photooxygenation mechanisms. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 860.	2.8	18
43	Photobinding of carprofen to protein. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2000, 58, 13-19.	3.8	15
44	Triplet Excimers of Fluoroquinolones in Aqueous Media. <i>Journal of Physical Chemistry A</i> , 2012, 116, 5030-5038.	2.5	15
45	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
46	Photoreactivity of Fluoroquinolones: Nature of Aryl Cations Generated in Water. <i>Organic Letters</i> , 2012, 14, 3940-3943.	4.6	13
47	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
48	Excited State Pathways of Four-coordinate N,C-chelate Organoboron Dyes. <i>ChemPhotoChem</i> , 2018, 2, 34-41.	3.0	13
49	Solvent Effects in Hydrogen Abstraction from Cholesterol by Benzophenone Triplet Excited State. <i>Organic Letters</i> , 2011, 13, 4096-4099.	4.6	12
50	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
51	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
52	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
53	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
54	Photochemistry of 2,6-dichlorodiphenylamine and Chlorocarbazole, the Photoactive Chromophores of Diclofenac, Meclofenamic Acid and Their Major Photoproducts. <i>Photochemistry and Photobiology</i> , 1998, 68, 640-645.	2.5	9

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55	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
56	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
57	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
58	Primary steps of the photochemical reactions of 2-cyano-10-(3-[dimethylamino]) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 632 Td (N-oxide)-neuroleptic: comparison with the sulfoxide. <i>Photochemical and Photobiological Sciences</i> , 2006, 5, 336.	2.9	7
59	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
60	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
61	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
62	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
63	Size-controlled photochemical synthesis of niobium nanoparticles. <i>Dalton Transactions</i> , 2013, 42, 14049.	3.3	6
64	Steric shielding vs. $\pi$ - $\pi$ orbital interactions in triplet-triplet energy transfer. <i>Chemical Science</i> , 2015, 6, 4035-4041.	7.4	6
65	Drug-DNA complexation as the key factor in photosensitized thymine dimerization. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4951-4955.	2.8	6
66	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
67	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
68	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
69	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
70	Drug-tubulin interactions interrogated by transient absorption spectroscopy. <i>RSC Advances</i> , 2015, 5, 49451-49458.	3.6	3
71	Antineoplastic tropolone derivatives as useful biomarkers: fluorescence enhancement upon binding to biological targets. <i>RSC Advances</i> , 2013, 3, 12031.	3.6	2
72	Chemical tuning for potential antitumor fluoroquinolones. <i>Free Radical Biology and Medicine</i> , 2019, 141, 150-158.	2.9	2

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73	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
74	Biradical vs singlet oxygen photogeneration in suprofen cholesterol systems. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1196-1202.	2.2	1
75	A Photochemical Approach to Fluoroquinolones Toxicity. <i>Advances in Molecular Toxicology</i> , 2015, 9, 259-280.	0.4	0