

M Consuelo Jimenez

List of Publications by Year in descending order

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108
papers

3,495
citations

257450

24
h-index

144013

57
g-index

118
all docs

118
docs citations

118
times ranked

2892
citing authors

#	ARTICLE	IF	CITATIONS
1	Shuttles and Muscles: Linear Molecular Machines Based on Transition Metals. <i>Accounts of Chemical Research</i> , 2001, 34, 477-487.	15.6	683
2	Towards Synthetic Molecular Muscles: Contraction and Stretching of a Linear Rotaxane Dimer. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 3284-3287.	13.8	496
3	Rotaxanes as new architectures for photoinduced electron transfer and molecular motions. <i>Chemical Society Reviews</i> , 1999, 28, 293-305.	38.1	310
4	Chemically Induced Contraction and Stretching of a Linear Rotaxane Dimer. <i>Chemistry - A European Journal</i> , 2002, 8, 1456-1466.	3.3	198
5	Towards artificial muscles at the nanometric level. <i>Chemical Communications</i> , 2003, , 1613.	4.1	147
6	Rotaxanes and catenanes as prototypes of molecular machines and motors. <i>Pure and Applied Chemistry</i> , 2003, 75, 1383-1393.	1.9	124
7	A Hermaphrodite Molecule: Quantitative Copper(I)-Directed Formation of a Doubly Threaded Assembly from a Ring Attached to a String. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1295-1298.	13.8	118
8	Triplet Excited States as Chiral Reporters for the Binding of Drugs to Transport Proteins. <i>Journal of the American Chemical Society</i> , 2005, 127, 10134-10135.	13.7	84
9	Towards molecular machines and motors based on transition metal complexes. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 476-483.	1.9	61
10	Photoactive assemblies of organic compounds and biomolecules: drug-protein supramolecular systems. <i>Chemical Society Reviews</i> , 2014, 43, 4102-4122.	38.1	51
11	Transition-Metal-Templated Synthesis of Rotaxanes. <i>Topics in Stereochemistry</i> , 2003, , 125-173.	2.0	44
12	Regioirregular and catalytic Mizoroki-Heck reactions. <i>Nature Catalysis</i> , 2021, 4, 293-303.	34.4	42
13	Photochemistry of naproxen in the presence of β -cyclodextrin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 104, 119-121.	3.9	40
14	A joint experimental/theoretical study of the ultrafast excited state deactivation of deoxyadenosine and 9-methyladenine in water and acetonitrile. <i>Photochemical and Photobiological Sciences</i> , 2013, 12, 1375-1386.	2.9	39
15	Selective and efficient synthesis of di-, tri- and tetrasubstituted 1, 10-phenanthrolines. <i>Tetrahedron Letters</i> , 1999, 40, 3395-3396.	1.4	38
16	Characterisation of the lowest singlet and triplet excited states of S-flurbiprofen. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 1038-1041.	2.9	34
17	Photoinduced processes in naproxen-based chiral dyads. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2007, 8, 128-142.	11.6	33
18	Use of Triplet Excited States for the Study of Drug Binding to Human and Bovine Serum Albumins. <i>ChemMedChem</i> , 2006, 1, 1015-1020.	3.2	31

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19	Experimental and Theoretical Studies on the Radical-Cation-Mediated Imino-Diels-Alder Reaction. <i>Organic Letters</i> , 2011, 13, 5116-5119.	4.6	30
20	Recent applications of biphotonic processes in organic synthesis. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1709-1716.	4.5	30
21	Hetero-cycloreversions Mediated by Photoinduced Electron Transfer. <i>Accounts of Chemical Research</i> , 2014, 47, 1359-1368.	15.6	28
22	Drug-protein interactions assessed by fluorescence measurements in the real complexes and in model dyads. <i>Chemical Physics Letters</i> , 2010, 486, 147-153.	2.6	27
23	Stereodifferentiation in the fluorescence of naproxen-arginine salts in the solid state. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 2167-2171.	1.8	26
24	Photochemistry of allylphenol derivatives. Role of the phenolic and styrenic excited states in the behavior of bichromophoric cinnamylphenol. <i>Journal of Organic Chemistry</i> , 1994, 59, 197-202.	3.2	25
25	Excited-State Interactions in Flurbiprofen-Tryptophan Dyads. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9363-9371.	2.6	25
26	Enhanced Photostability of the Anthracene Chromophore in Aqueous Medium upon Protein Encapsulation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 11363-11369.	2.6	21
27	Formation of dichloromethyl phenyl ethers as major products in the photo-Reimer-Tiemann reaction without base. <i>Tetrahedron</i> , 1995, 51, 5825-5830.	1.9	20
28	Two-photon processes in the photo-Claisen and photo-Fries rearrangements. Direct observation of dienic ketenes generated by photolysis of transient cyclohexa-2,4-dienones. <i>Chemical Communications</i> , 1997, , 1487-1488.	4.1	20
29	Transient Absorption Spectroscopy for Determining Multiple Site Occupancy in Drug-Protein Conjugates. A Comparison between Human and Bovine Serum Albumins Using Flurbiprofen Methyl Ester as a Probe. <i>Journal of Physical Chemistry B</i> , 2008, 112, 2694-2699.	2.6	20
30	Enhanced photo(geno)toxicity of demethylated chlorpromazine metabolites. <i>Toxicology and Applied Pharmacology</i> , 2016, 313, 131-137.	2.8	20
31	Proton, electron and energy transfer processes in excited phenol-olefin dyads. <i>Chemical Society Reviews</i> , 2005, 34, 783.	38.1	19
32	2,4,6-triphenylpyrylium tetrafluoroborate-photosensitized Reactions of o-cinnamylphenols and o-hydroxystilbenes. <i>Tetrahedron</i> , 1997, 53, 681-688.	1.9	18
33	Stereodifferentiation in the Compartmentalized Photooxidation of a Protein-Bound Anthracene. <i>Organic Letters</i> , 2011, 13, 3860-3863.	4.6	18
34	Magnetic light and forbidden photochemistry: the case of singlet oxygen. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11824-11831.	5.5	18
35	Photogeneration of Quinone Methides as Latent Electrophiles for Lysine Targeting. <i>Journal of Organic Chemistry</i> , 2018, 83, 13019-13029.	3.2	18
36	Photodecarboxylation of 2-phenylpropionic acid in solution and included within β -cyclodextrin. <i>Tetrahedron</i> , 1995, 51, 2953-2958.	1.9	17

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37	Competition between Cyclization and Dehalogenation in the Photochemistry of Cinnamylphenols with Halogen Substituents at the Phenolic and Styrenic Chromophores. <i>Journal of Organic Chemistry</i> , 1998, 63, 1323-1326.	3.2	17
38	In situ Transient Absorption Spectroscopy to Assess Competition between Serum Albumin and Alpha-1-Acid Glycoprotein for Drug Transport. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 829-833.	4.6	17
39	Determination of Enantiomeric Compositions by Transient Absorption Spectroscopy using Proteins as Chiral Selectors. <i>Chemistry - A European Journal</i> , 2008, 14, 11284-11287.	3.3	16
40	Cycloreversion of Azetidines via Oxidative Electron Transfer. Steady-State and Time-Resolved Studies. <i>Organic Letters</i> , 2008, 10, 5207-5210.	4.6	16
41	Photonucleophilic Addition of the β -Amino Group of Lysine to a Triflusal Metabolite as a Mechanistic Key to Photoallergy Mediated by the Parent Drug. <i>ChemMedChem</i> , 2009, 4, 1196-1202.	3.2	16
42	Chemical Evidence for Intramolecular Proton, Electron, and Energy Transfer in the Photochemistry of α -Allylphenol Derivatives. <i>Journal of Organic Chemistry</i> , 1995, 60, 3243-3245.	3.2	15
43	Excited state interactions between flurbiprofen and tryptophan in drug-protein complexes and in model dyads. Fluorescence studies from the femtosecond to the nanosecond time domains. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4727.	2.8	15
44	Norrish type I photoreaction in the presence of phenols; an intermolecular photo-Fries rearrangement. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 2009-2010.	2.0	14
45	Enhanced Photosafety of Cinacalcet upon Complexation with Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 1158-1164.	2.6	14
46	Excited-State Interactions in Diastereomeric Flurbiprofen-Thymine Dyads. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8807-8814.	2.5	14
47	Photo(geno)toxicity changes associated with hydroxylation of the aromatic chromophores during diclofenac metabolism. <i>Toxicology and Applied Pharmacology</i> , 2018, 341, 51-55.	2.8	14
48	In Situ Transient Spectroscopy for the Study of Glucuronidase Activity within Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6861-6865.	2.6	13
49	Ring splitting of azetidin-2-ones via radical anions. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 7928.	2.8	13
50	Photocyclization of 2-cinnamylphenols via excited state proton transfer (ESPT) involving the lowest-lying styrenic singlet. <i>Tetrahedron</i> , 1997, 53, 14729-14736.	1.9	12
51	Naphthalene Triplet Excited State as a Probe for the Assessment of Drug Distribution in Binary Protein Systems. <i>Journal of Physical Chemistry B</i> , 2011, 115, 4460-4468.	2.6	12
52	Ground and excited-state intramolecular interactions in phenol-olefin bichromophoric compounds. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1998, , 2175-2180.	0.9	11
53	Stereoselectivity in the triplet decay of chiral benzophenone-naphthalene bichromophoric systems. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 36-38.	2.9	11
54	Diastereodifferentiation of Novel Naphthalene Dyads by Fluorescence Quenching and Excimer Formation. <i>ChemPhysChem</i> , 2006, 7, 2175-2183.	2.1	11

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55	Mechanistic Studies on the Photoallergy Mediated by Fenofibric Acid: Photoreactivity with Serum Albumins. <i>Chemical Research in Toxicology</i> , 2016, 29, 40-46.	3.3	11
56	A New Pathway for Protein Haptentation by β -Lactams. <i>Chemistry - A European Journal</i> , 2017, 23, 13986-13994.	3.3	11
57	Aerobic Visible-Light-Driven Borylation of Heteroarenes in a Gel Nanoreactor. <i>Organic Letters</i> , 2021, 23, 2320-2325.	4.6	11
58	Retarded Photooxidation of Cyamemazine in Biomimetic Microenvironments. <i>Photochemistry and Photobiology</i> , 2014, 90, 1012-1016.	2.5	10
59	Photobinding of Triflusal to Human Serum Albumin Investigated by Fluorescence, Proteomic Analysis, and Computational Studies. <i>Frontiers in Pharmacology</i> , 2019, 10, 1028.	3.5	10
60	Rapid Access to Borylated Thiophenes Enabled by Visible Light. <i>Organic Letters</i> , 2020, 22, 3273-3278.	4.6	10
61	Highly efficient latent fingerprint detection by eight-dansyl-functionalized octasilsesquioxane nanohybrids. <i>Dyes and Pigments</i> , 2021, 184, 108841.	3.7	10
62	Di- π -methane photorearrangement of trans-1,3-diphenylpropene upon excitation to higher singlet states in polar solvents. <i>Chemical Communications</i> , 2000, , 2341-2342.	4.1	9
63	Stereoselective Binding of Flurbiprofen Enantiomers and their Methyl Esters to Human Serum Albumin Studied by Time-Resolved Phosphorescence. <i>Chirality</i> , 2012, 24, 840-846.	2.6	9
64	Excited state interactions in phenol/olefin bichromophoric compounds: direct detection of an intramolecular exciplex. <i>Chemical Communications</i> , 2000, , 1747-1748.	4.1	8
65	Novel generation of an o-quinone methide from 2-(2-cyclohexenyl)phenol by excited state intramolecular proton transfer and subsequent C-C fragmentation. <i>Chemical Communications</i> , 2002, , 2636-2637.	4.1	8
66	Oxetane Ring Enlargement through Nucleophilic Trapping of Radical Cations by Acetonitrile. <i>Organic Letters</i> , 2012, 14, 5700-5703.	4.6	8
67	Cycloreversion of β -lactams via photoinduced electron transfer. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 8428-8432.	2.8	8
68	Photooxygenation mechanisms in naproxen-amino acid linked systems. <i>Photochemical and Photobiological Sciences</i> , 2014, 13, 224-230.	2.9	8
69	Photocyclization of cinnamyl naphthols. <i>Tetrahedron</i> , 1998, 54, 4337-4344.	1.9	7
70	Drug-Drug Interactions within Protein Cavities Probed by Triplet-Triplet Energy Transfer. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1603-1607.	4.6	7
71	Highly Efficient Production of Heteroarene Phosphonates by Dichromatic Photoredox Catalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48784-48794.	8.0	7
72	Evaluation of phototoxicity induced by the anticancer drug rucaparib. <i>Scientific Reports</i> , 2022, 12, 3434.	3.3	7

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73	Photoredox catalysis powered by triplet fusion upconversion: arylation of heteroarenes. <i>Photochemical and Photobiological Sciences</i> , 2022, , 1.	2.9	6
74	Photolysis of 3-Bromochroman-4-ones. <i>Heterocycles</i> , 1996, 43, 339.	0.7	5
75	Photoinduced processes in flurbiprofen-carprofen dyads. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 207, 52-57.	3.9	5
76	Transient absorption spectroscopy detection of sensitized delayed fluorescence in chiral benzophenone/naphthalene systems. <i>Chemical Physics Letters</i> , 2011, 515, 194-196.	2.6	5
77	Stereodifferentiation in the intramolecular singlet excited state quenching of hydroxybiphenyl-tryptophan dyads. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 1958.	2.8	5
78	Mapping a protein recognition centre with chiral photoactive ligands. An integrated approach combining photophysics, reactivity, proteomics and molecular dynamics simulation studies. <i>Chemical Science</i> , 2017, 8, 2621-2628.	7.4	5
79	Photoreactions of trans-1-o-Hydroxyphenyl-2-phenylcyclopropane. <i>Journal of Organic Chemistry</i> , 1999, 64, 6541-6546.	3.2	4
80	Influence of the spacer on the photoreactivity of flurbiprofen-tyrosine dyads. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 322-323, 95-101.	3.9	4
81	Singlet oxygen production and <i>in vitro</i> phototoxicity studies on fenofibrate, mycophenolate mofetil, trifusal, and their active metabolites. <i>Journal of Physical Organic Chemistry</i> , 2017, 30, e3722.	1.9	4
82	Fluorescently Labeled Octasilsesquioxane Nanohybrids as Potential Materials for Latent Fingerprinting Detection. <i>Chemistry - A European Journal</i> , 2020, 26, 13142-13146.	3.3	4
83	Electron transfer oxidation of enol derivatives of 2,3-dihydrobenzopyran-4-ones. <i>Tetrahedron</i> , 1994, 50, 7635-7644.	1.9	3
84	Influence of the intrazeolite microenvironment on the fate of the radical pairs formed by photolysis of 3-bromo-4-chromanone. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1995, 86, 225-229.	3.9	3
85	Photochemical ortho-acylation of phenols with 1,1,1-trichloroethane. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1996, 97, 151-153.	3.9	3
86	Intraprotein Formation of a Long Wavelength Absorbing Complex and Inhibition of Excited-State Deprotonation in a Chiral Hydroxybiphenyl. <i>Journal of Physical Chemistry B</i> , 2012, 116, 14839-14843.	2.6	3
87	Bypassing the Energy Barrier of Homolytic Photodehalogenation in Chloroaromatics through Self-Quenching. <i>Organic Letters</i> , 2013, 15, 1314-1317.	4.6	3
88	Photocyclization of a Bichromophoric Phenol/Olefin System Substituted at the Methylene Spacer with Zwitterions versus H-Bridged Intermediates in the Excited State Proton Transfer. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 297-300.	2.4	2
89	Intramolecular excited-state interactions in phenol-styrene bichromophoric systems: a photochemical and photophysical study. <i>Tetrahedron</i> , 2002, 58, 115-120.	1.9	2
90	Triplet energy management between two signaling units through cooperative rigid scaffolds. <i>Chemical Communications</i> , 2016, 52, 713-716.	4.1	2

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91	Ultrafast Fluorescence Dynamics in Flurbiprofenâ€“Amino Acid Dyads and in the Supramolecular Drug/Protein Complex. <i>Chimia</i> , 2017, 71, 18.	0.6	2
92	A combined photophysical and computational study on the binding of mycophenolate mofetil and its major metabolite to transport proteins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 199, 308-314.	3.9	2
93	Investigation of metabolite-protein interactions by transient absorption spectroscopy and in silico methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 226, 117652.	3.9	2
94	Photobehavior of the antipsychotic drug cyamemazine in a supramolecular gel protective environment. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 202, 111686.	3.8	2
95	Oxygen-containing functions. <i>Photochemistry</i> , 0, , 143-167.	0.2	2
96	Triplet Excited States as a Source of Relevant (Bio)Chemical Information. <i>Current Topics in Medicinal Chemistry</i> , 2015, 14, 2734-2742.	2.1	2
97	Novel photohydration of non-conjugated aryl/olefin bichromophores within cyclodextrin cavities. <i>Chemical Communications</i> , 2001, , 2328-2329.	4.1	1
98	Triplet Excited State Behavior of Naphthalene-Based Pseudopeptides in the Presence of Energy Donors. <i>Journal of Physical Chemistry B</i> , 2012, 116, 9957-9962.	2.6	1
99	Identification of a common recognition center for a photoactive non-steroidal antiinflammatory drug in serum albumins of different species. <i>Organic Chemistry Frontiers</i> , 2019, 6, 99-109.	4.5	1
100	Arylisoquinoline-derived organoboron dyes with a triaryl skeleton show dual fluorescence. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 2612-2622.	2.2	1
101	Organic aspects. Oxygen-containing functions. <i>Photochemistry</i> , 0, , 146-173.	0.2	1
102	Chemical and transient spectroscopic evidence for radical and ionic pathways in the photolysis of 3-halo-2,3-dihydrobenzopyran-4-ones. <i>Arkivoc</i> , 2007, 2007, 224-230.	0.5	1
103	Novel Generation of an o-Quinone Methide from 2-(2â€²-Cyclohexenyl)phenol by Excited State Intramolecular Proton Transfer and Subsequent Câ€”C Fragmentation.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
104	Proton, Electron and Energy Transfer Processes in Excited Phenolâ€”Olefin Dyads. <i>ChemInform</i> , 2005, 36, no.	0.0	0
105	Drug/protein interactions studied by time-resolved fluorescence spectroscopy. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
106	Chapter 5. Oxygen-containing functions. <i>Photochemistry</i> , 2014, , 142-165.	0.2	0
107	Organic aspects. Oxygen-containing functions. <i>Photochemistry</i> , 2016, , 188-223.	0.2	0
108	Organic aspects. Oxygen-containing functions. <i>Photochemistry</i> , 2018, , 169-193.	0.2	0