

Jordi Hernando

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92
papers

2,920
citations

32
h-index

51
g-index

102
ext. papers

3,210
ext. citations

7.3
avg, IF

4.86
L-index

#	Paper	IF	Citations
92	Coordination polymer particles as potential drug delivery systems. <i>Chemical Communications</i> , 2010 , 46, 4737-9	5.8	193
91	Metal-organic spheres as functional systems for guest encapsulation. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2325-9	16.4	179
90	A simple approach to sensor discovery and fabrication on self-assembled monolayers on glass. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7293-9	16.4	155
89	Investigation of perylene photonic wires by combined single-molecule fluorescence and atomic force microscopy. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 4045-9	16.4	105
88	Power-law-distributed dark states are the main pathway for photobleaching of single organic molecules. <i>Physical Review Letters</i> , 2005 , 95, 097401	7.4	99
87	Versatile nanostructured materials via direct reaction of functionalized catechols. <i>Advanced Materials</i> , 2013 , 25, 2066-70	24	88
86	Two-photon neuronal and astrocytic stimulation with azobenzene-based photoswitches. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8693-701	16.4	87
85	Excitonic Behavior of Rhodamine Dimers: A Single-Molecule Study. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 43-52	2.8	86
84	Power-law blinking in the fluorescence of single organic molecules. <i>ChemPhysChem</i> , 2007 , 8, 823-33	3.2	84
83	Ab initio ground potential energy surface, VTST and QCT study of the O(3P)+CH4(X 1A1)->OH(X 2 Σ)+CH3(X 2A2?) reaction. <i>Journal of Chemical Physics</i> , 1999 , 110, 7326-7338	3.9	68
82	Ultrafast dynamics of single molecules. <i>Chemical Society Reviews</i> , 2014 , 43, 2476-91	58.5	67
81	Single molecule photobleaching probes the exciton wave function in a multichromophoric system. <i>Physical Review Letters</i> , 2004 , 93, 236404	7.4	65
80	Single-molecule pump-probe detection resolves ultrafast pathways in individual and coupled quantum systems. <i>Physical Review Letters</i> , 2005 , 94, 078302	7.4	60
79	Energy transfer in single-molecule photonic wires. <i>ChemPhysChem</i> , 2005 , 6, 819-27	3.2	55
78	Layered Double Hydroxides with Intercalated Porphyrins as Photofunctional Materials: Subtle Structural Changes Modify Singlet Oxygen Production. <i>Chemistry of Materials</i> , 2007 , 19, 3822-3829	9.6	54
77	Rationally designed azobenzene photoswitches for efficient two-photon neuronal excitation. <i>Nature Communications</i> , 2019 , 10, 907	17.4	53
76	Emission color tuning and white-light generation based on photochromic control of energy transfer reactions in polymer micelles. <i>Chemical Science</i> , 2016 , 7, 5867-5871	9.4	52

75	Synthesis and characterization of long perylene diimide polymer fibers: from bulk to the single-molecule level. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7803-12	3.4	51
74	Temperature-Controlled Switchable Photochromism in Solid Materials. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15044-15048	16.4	50
73	An all-photonic full color RGB system based on molecular photoswitches. <i>Nature Communications</i> , 2019 , 10, 3996	17.4	44
72	Mussel-inspired hydrophobic coatings for water-repellent textiles and oil removal. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 17616-25	9.5	44
71	Light- and Redox-Controlled Fluorescent Switch Based on a Perylene diimide Dithienylethene Dyad. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7164-7172	3.8	43
70	DNA-based molecular wires: multiple emission pathways of individual constructs. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 26349-53	3.4	43
69	Solid Materials with Tunable Reverse Photochromism. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 11884-11892	9.5	42
68	Investigation of an acid-base and redox molecular switch: from bulk to the single-molecule level. <i>Chemistry - A European Journal</i> , 2007 , 13, 7066-74	4.8	39
67	Femtolitre chemistry assisted by microfluidic pen lithography. <i>Nature Communications</i> , 2013 , 4, 2173	17.4	37
66	Encapsulation and release mechanisms in coordination polymer nanoparticles. <i>Chemistry - A European Journal</i> , 2013 , 19, 17508-16	4.8	37
65	Metal-Organic Spheres as Functional Systems for Guest Encapsulation. <i>Angewandte Chemie</i> , 2009 , 121, 2361-2365	3.6	37
64	Effect of disorder on ultrafast exciton dynamics probed by single molecule spectroscopy. <i>Physical Review Letters</i> , 2006 , 97, 216403	7.4	35
63	An analytical potential energy surface of the HClF (2A ₂) system based on ab initio calculations. Variational transition state theory study of the H+ClF→F+HCl, Cl+HF and F+HCl→Cl+HF reactions and their deuterium isotope variants. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 947-956	3.6	35
62	A multi-stimuli responsive switch as a fluorescent molecular analogue of transistors. <i>Chemical Science</i> , 2016 , 7, 1819-1825	9.4	32
61	Photomodulation of G protein-coupled adenosine receptors by a novel light-switchable ligand. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1847-54	6.3	32
60	Quasiclassical trajectory study of the H+ClF→F+HCl, Cl+HF and F+HCl→Cl+HF reactions and their deuterium isotope variants on a new (2A ₂) ab initio potential energy surface. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 523-533	3.6	31
59	Ab initio ground potential energy surface and quasiclassical trajectory study of the O(1D)+CH ₄ (X 1A ₁)→OH(X 2 Σ)+CH ₃ (X 2A ₂) reaction dynamics. <i>Journal of Chemical Physics</i> , 1999 , 111, 8913-8924	3.9	31
58	Influence of the Collision Energy on the O(1D) + RH → OH(X Σ) + R (RH = CH ₄ , C ₂ H ₆ , C ₃ H ₈) Reaction Dynamics: A Laser-Induced Fluorescence and Quasiclassical Trajectory Study. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 521-529	2.8	29

57	Switchable colloids, thin-films and interphases based on metal complexes with non-innocent ligands: the case of valence tautomerism and their applications. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5879-5889	7.1	28
56	Synthetic Photoswitchable Neurotransmitters Based on Bridged Azobenzenes. <i>Organic Letters</i> , 2019 , 21, 3780-3784	6.2	26
55	Thermally Switchable Molecular Upconversion Emission. <i>Chemistry of Materials</i> , 2016 , 28, 738-745	9.6	26
54	Influence of collision energy on the dynamics of the reaction $O(1D) + CH_4(X1A1) \rightarrow OH(X2\Sigma) + CH_3(X2A2?)$. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 288-294	3.6	25
53	Theoretical study of the dynamics, stereodynamics, and microscopic mechanism of the $O(1D)+CH_4(X1A1)\rightarrow OH(X2\Sigma)+CH_3(X2A2?)$ reaction. <i>Journal of Chemical Physics</i> , 2000 , 113, 6748-6759	3.9	25
52	Liquid-Filled Capsules as Fast Responsive Photochromic Materials. <i>Advanced Optical Materials</i> , 2013 , 1, 631-636	8.1	24
51	Catechol derivatives as fluorescent chemosensors for wide-range pH detection. <i>Chemistry - A European Journal</i> , 2008 , 14, 9754-63	4.8	23
50	Photon antibunching proves emission from a single subunit in the autofluorescent protein DsRed. <i>ChemPhysChem</i> , 2004 , 5, 1782-5	3.2	23
49	An Optimized Glutamate Receptor Photoswitch with Sensitized Azobenzene Isomerization. <i>Journal of Organic Chemistry</i> , 2015 , 80, 9915-25	4.2	22
48	Investigation of Perylene Photonic Wires by Combined Single-Molecule Fluorescence and Atomic Force Microscopy. <i>Angewandte Chemie</i> , 2004 , 116, 4137-4141	3.6	22
47	Disaggregation-induced fluorescence enhancement of NIAD-4 for the optical imaging of amyloid- β fibrils. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 19718-25	3.6	21
46	Single-molecule pump-probe experiments reveal variations in ultrafast energy redistribution. <i>Journal of Chemical Physics</i> , 2005 , 123, 64703	3.9	21
45	Spectroscopy and photophysics of dimethyl-substituted alloxazines. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 200, 148-160	4.7	20
44	Surface-structured molecular sensor for the optical detection of acidity. <i>Langmuir</i> , 2008 , 24, 2963-6	4	19
43	Ab initio study of the $O(1D)+CH_4(X1A1)\rightarrow OH(X2\Sigma)+CH_3(X2A2?)$ reaction: Ground and excited potential energy surfaces. <i>Journal of Chemical Physics</i> , 2003 , 119, 9504-9512	3.9	19
42	Temperature-Controlled Switchable Photochromism in Solid Materials. <i>Angewandte Chemie</i> , 2016 , 128, 15268-15272	3.6	18
41	Laser Synthesis and Characterization of Nitrogen-Doped TiO ₂ Vertically Aligned Columnar Array Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 14534-14540	3.8	17
40	Color-Tunable White-Light-Emitting Materials Based on Liquid-Filled Capsules and Thermally Responsive Dyes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17751-17758	9.5	16

39	Multistimuli-Responsive Fluorescent Switches Based on Spirocyclic Meisenheimer Compounds: Smart Molecules for the Design of Optical Probes and Electrochromic Materials. <i>Journal of Organic Chemistry</i> , 2018 , 83, 9166-9177	4.2	16
38	Liquid-Filled Valence Tautomeric Microcapsules: A Solid Material with Solution-Like Behavior. <i>Advanced Functional Materials</i> , 2015 , 25, 4129-4134	15.6	16
37	[2 + 2] Photocycloaddition of 2(5H)-furanone to unsaturated compounds. insights from first principles calculations and transient-absorption measurements. <i>Journal of Organic Chemistry</i> , 2010 , 75, 4392-401	4.2	16
36	Remote control of movement disorders using a photoactive adenosine A receptor antagonist. <i>Journal of Controlled Release</i> , 2018 , 283, 135-142	11.7	15
35	The OH + D2 → HOD + D angle-velocity distribution: quasi-classical trajectory calculations on the YZCL2 and WSLFH potential energy surfaces and comparison with experiments at ET = 0.28 eV. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 11520-7	3.6	15
34	Memory in Single Emitter Fluorescence Blinking Reveals the Dynamic Character of Nanoscale Charge Tunneling. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 3417-3422	3.8	15
33	Collision energy effects on the dynamics of the reaction O(3P)+CH4(X1A1)→OH(X2 Σ)+CH3(X2A2?). <i>Chemical Physics Letters</i> , 2001 , 341, 608-618	2.5	15
32	Multiplexed arrays of chemosensors by parallel dip-pen nanolithography. <i>Chemical Communications</i> , 2011 , 47, 6864-6	5.8	13
31	pH-responsive fluorescent nanoarrays fabricated by direct-write parallel dip-pen nanolithography. <i>Small</i> , 2008 , 4, 2131-5	11	13
30	Enhanced photocatalytic activity of gold nanoparticles driven by supramolecular host-guest chemistry. <i>Chemical Communications</i> , 2017 , 53, 2126-2129	5.8	11
29	Wavelength-Tunable Light-Induced Polymerization of Cyanoacrylates Using Photogenerated Amines. <i>Macromolecules</i> , 2019 , 52, 2329-2339	5.5	11
28	Single-Molecule Spectroscopy Reveals the Conformational Heterogeneity of Conducting Polymers Encapsulated within Hollow Silica Spheres. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4104-4110	3.8	10
27	A QCT study of the microscopic mechanisms proceeding via the ground PES of the O(1D)+H2 (X1 Σ +)→OH(X2 Σ)+H(2S) reaction. <i>Chemical Physics Letters</i> , 2003 , 380, 123-134	2.5	10
26	Influence of collision energy on the N(2D)+O2→O(3P)+NO reaction dynamics: A quasiclassical trajectory study involving four potential energy surfaces. <i>Journal of Chemical Physics</i> , 2003 , 119, 10040-10047	3.9	10
25	Fluorescent "Turn-Off" Detection of Fluoride and Cyanide Ions Using Zwitterionic Spirocyclic Meisenheimer Compounds. <i>Molecules</i> , 2017 , 22,	4.8	8
24	Electronic structure and spectral properties of selected trimethyl-alloxazines: Combined experimental and DFT study. <i>Chemical Physics</i> , 2009 , 361, 83-93	2.3	7
23	Ab initio ground PES and QCT study of the influence of molecular alignment and vibrational excitation on the K + HF → KF + H reaction. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 4701-4711	3.6	7
22	Solid Multiresponsive Materials Based on Nitrospiropyran-Doped Ionogels. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26461-26471	9.5	7

21	Polymethylferrocene-Induced Photopolymerization of Cyanoacrylates Using Visible and Near-Infrared Light. <i>Macromolecules</i> , 2019 , 52, 5602-5610	5.5	6
20	Structuration of pH-responsive fluorescent molecules on surfaces by soft lithographic techniques. <i>Nanoscale</i> , 2010 , 2, 1781-8	7.7	6
19	Quantum dynamics study of the $K+HF(v=0-2, j=0) \rightarrow KF+H$ reaction and comparison with quasiclassical trajectory results. <i>Journal of Chemical Physics</i> , 2008 , 128, 144302	3.9	6
18	Reversibly Switchable Fluorescent Molecular Systems Based on Metallacarborane-Perylenediimide Conjugates. <i>Chemistry - A European Journal</i> , 2021 , 27, 270-280	4.8	6
17	Adrenergic Modulation With Photochromic Ligands. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3625-3631	16.4	6
16	New smart functional fluorophores based on stable spirocyclic zwitterionic Meisenheimer compounds. <i>Dyes and Pigments</i> , 2018 , 153, 160-171	4.6	5
15	Ultrafast single-molecule photonics: Excited state dynamics in coherently coupled complexes. <i>Journal of Luminescence</i> , 2008 , 128, 1050-1052	3.8	4
14	Influence of Collision Energy on the Nascent $OH(X^2\Sigma^-, v=0)$ Product Energetics for the Reaction of $O(1D)$ with Ethane. A Laser-Induced Fluorescence and Quasiclassical Trajectory Study. <i>Journal of Physical Chemistry A</i> , 2001 , 105, 9834-9844	2.8	4
13	Thermal Control of Intermolecular Interactions and Tuning of Fluorescent-State Energies. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 4632-4637	3.8	3
12	Nascent $OH(X^2\Sigma^-)$ product state distributions from the reaction of $O(1D)$ with ethylene.: A laser-induced fluorescence study. <i>Chemical Physics Letters</i> , 2001 , 346, 69-80	2.5	3
11	Solid Materials with Near-Infrared-Induced Fluorescence Modulation. <i>Advanced Optical Materials</i> , 2020 , 8, 2001063	8.1	3
10	Thermoresponsive multicolor-emissive materials based on solid lipid nanoparticles. <i>Materials Horizons</i> , 2021 , 8, 3043-3054	14.4	3
9	Dual-Wavelength Gated -Diels-Alder Photoligation. <i>Organic Letters</i> , 2021 , 23, 2405-2410	6.2	3
8	Squaramide-Based Pt(II) Complexes as Potential Oxygen-Regulated Light-Triggered Photocages. <i>Inorganic Chemistry</i> , 2018 , 57, 15517-15525	5.1	3
7	Formation of cyclobutane thymine dimers by tiaprofenic acid and its photoproducts: approach to the photosensitizer triplet state energy limit value. <i>RSC Advances</i> , 2015 , 5, 68595-68600	3.7	2
6	Remote local photoactivation of morphine produces analgesia without opioid-related adverse effects. <i>British Journal of Pharmacology</i> , 2021 ,	8.6	2
5	Photoswitchable dynasore analogs to control endocytosis with light. <i>Chemical Science</i> , 2020 , 11, 8981-8988	9.4	1
4	Optical control of adenosine A receptor function in psoriasis. <i>Pharmacological Research</i> , 2021 , 170, 105730	10.2	1

- 3 Adrenergic Modulation With Photochromic Ligands. *Angewandte Chemie*, **2021**, 133, 3669-3675 3.6 ○
- 2 Tunable Thermofluorochromic Sensors Based on Conjugated Polymers. *Advanced Optical Materials*, **2021**, 10, 2102823 ○
- 1 Ultrafast spectroscopy of single molecules. *Springer Series in Chemical Physics*, **2007**, 231-233 0.3