

# Luis Velarde

## List of Publications by Year in descending order

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39  
papers

1,246  
citations

331670

21  
h-index

361022

35  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative Sum-Frequency Generation Vibrational Spectroscopy of Molecular Surfaces and Interfaces: Lineshape, Polarization, and Orientation. Annual Review of Physical Chemistry, 2015, 66, 189-216.	10.8	190
2	Communication: Spectroscopic phase and lineshapes in high-resolution broadband sum frequency vibrational spectroscopy: Resolving interfacial inhomogeneities of "identical" molecular groups. Journal of Chemical Physics, 2011, 135, 241102.	3.0	96
3	The Lowest Singlet and Triplet States of the Oxyallyl Diradical. Angewandte Chemie - International Edition, 2009, 48, 8509-8511.	13.8	75
4	Unified treatment and measurement of the spectral resolution and temporal effects in frequency-resolved sum-frequency generation vibrational spectroscopy (SFG-VS). Physical Chemistry Chemical Physics, 2013, 15, 19970.	2.8	68
5	Consistency in the Sum Frequency Generation Intensity and Phase Vibrational Spectra of the Air/Neat Water Interface. Journal of Physical Chemistry A, 2011, 115, 6015-6027.	2.5	65
6	Photodetachment and photofragmentation pathways in the $[(\text{CO})_2(\text{H}_2\text{O})_m]^-$ cluster anions. Journal of Chemical Physics, 2006, 125, 114303.	3.0	54
7	Accurate Line Shapes from Sub-1 $\text{cm}^{-1}$ Resolution Sum Frequency Generation Vibrational Spectroscopy of $\pm$ -Pinene at Room Temperature. Journal of Physical Chemistry A, 2015, 119, 1292-1302.	2.5	49
8	Dissociative Binding of Carboxylic Acid Ligand on Nanoceria Surface in Aqueous Solution: A Joint In Situ Spectroscopic Characterization and First-Principles Study. Journal of Physical Chemistry C, 2013, 117, 24329-24338.	3.1	48
9	Capturing inhomogeneous broadening of the $\text{C-N}$ stretch vibration in a Langmuir monolayer with high-resolution spectra and ultrafast vibrational dynamics in sum-frequency generation vibrational spectroscopy (SFG-VS). Journal of Chemical Physics, 2013, 139, 084204.	3.0	48
10	Photoelectron Spectroscopic Study of the Oxyallyl Diradical. Journal of Physical Chemistry A, 2011, 115, 1634-1649.	2.5	43
11	Effects of solvation and core switching on the photoelectron angular distributions from $(\text{CO})_2^-$ and $(\text{CO})_2^- \dots \text{H}_2\text{O}$ . Journal of Chemical Physics, 2004, 120, 5148-5154.	3.0	39
12	Substrate influence on the interlayer electron-phonon couplings in fullerene films probed with doubly-resonant SFG spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 18519-18528.	2.8	32
13	Generation of tunable narrow bandwidth nanosecond pulses in the deep ultraviolet for efficient optical pumping and high resolution spectroscopy. Review of Scientific Instruments, 2010, 81, 063106.	1.3	30
14	$\text{C-H}$ Bond Dissociation Energy of Malononitrile. Journal of Physical Chemistry Letters, 2010, 1, 792-795.	4.6	30
15	Resolving Two Closely Overlapping $\text{C-N}$ Vibrations and Structure in the Langmuir Monolayer of the Long-Chain Nonadecanenitrile by Polarization Sum Frequency Generation Vibrational Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 2976-2987.	3.1	29
16	Electronic Structure and Spectroscopy of Oxyallyl: A Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 6935-6943.	2.5	28
17	Vibrationally promoted electron emission at a metal surface: electron kinetic energy distributions. Physical Chemistry Chemical Physics, 2011, 13, 97-99.	2.8	27
18	Solvent-enabled photodissociation of $\langle \text{mml:math altimg="si5.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="ht. Chemical Physics Letter$	2.6	26

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19	Photodissociation of CO <sub>2</sub> <sup>•-</sup> in water clusters via Renner-Teller and conical interactions. <i>Journal of Chemical Physics</i> , 2007, 126, 154301.	3.0	26
20	Solvent resonance effect on the anisotropy of NO <sup>•-</sup> (N <sub>2</sub> O) <sub>n</sub> cluster anion photodetachment. <i>Journal of Chemical Physics</i> , 2007, 127, 084302.	3.0	23
21	Interfacial Surfactant Ordering in Thin Films of SDS-Encapsulated Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 320-326.	4.6	23
22	Unique determination of the C≡N group tilt angle in Langmuir monolayers using sum-frequency polarization null angle and phase. <i>Chemical Physics Letters</i> , 2013, 585, 42-48.	2.6	22
23	Doubly resonant sum frequency spectroscopy of mixed photochromic isomers on surfaces reveals conformation-specific vibronic effects. <i>Journal of Chemical Physics</i> , 2019, 150, 114704.	3.0	20
24	Elucidation of the bonding of a near infrared dye to hollow gold nanospheres – a chalcogen tripod. <i>Chemical Science</i> , 2016, 7, 5160-5170.	7.4	19
25	Aggregated States of Chalcogenorhodamine Dyes on Nanocrystalline Titania Revealed by Doubly Resonant Sum Frequency Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3424-3436.	3.1	18
26	Vibrational spectral signatures of crystalline cellulose using high resolution broadband sum frequency generation vibrational spectroscopy (HR-BB-SFG-VS). <i>Cellulose</i> , 2015, 22, 1469-1484.	4.9	17
27	Electron Kinetic Energies from Vibrationally Promoted Surface Exoemission: Evidence for a Vibrational Autodetachment Mechanism. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14306-14314.	2.5	14
28	Further Evidence for Resonant Photoelectron Solvent Scattering in Nitrous Oxide Cluster Anions. <i>Journal of Physical Chemistry A</i> , 2010, 114, 1367-1373.	2.5	12
29	Coherent Vibrational Dynamics and High-resolution Nonlinear Spectroscopy: A Comparison with the Air/DMSO Liquid Interface. <i>Chinese Journal of Chemical Physics</i> , 2013, 26, 710-720.	1.3	11
30	Solvation-induced cluster anion core switching from NNO <sub>2</sub> <sup>•-</sup> (N <sub>2</sub> O) <sub>n</sub> <sup>-1</sup> to O <sup>•-</sup> (N <sub>2</sub> O) <sub>n</sub> . <i>Journal of Chemical Physics</i> , 2008, 129, 044311.	3.0	10
31	Relaxation of (CS <sub>2</sub> ) <sub>2</sub> <sup>•-</sup> to Its Global Minimum Mediated by Water Molecules: Photoelectron Imaging Study. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10134-10140.	2.5	9
32	Effects of isomer coexistence and solvent-induced core switching in the photodissociation of bare and solvated (CS <sub>2</sub> ) <sub>2</sub> <sup>•-</sup> anions. <i>Journal of Chemical Physics</i> , 2009, 130, 124301.	3.0	9
33	Tuning the Surface Ordering of Self-Assembled Ionic Surfactants on Semiconducting Single-Walled Carbon Nanotubes: Concentration, Tube Diameter, and Counterions. <i>Langmuir</i> , 2018, 34, 9279-9288.	3.5	8
34	Intermolecular Interactions at the Silica-Liquid Interface Modulate the Fermi Resonance Coupling in Surface Methanol. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5695-5702.	4.6	7
35	Imaging the reactivity and width of graphene's boundary region. <i>Chemical Communications</i> , 2020, 56, 9612-9615.	4.1	4
36	Observation and Characterization of the CH <sub>3</sub> S(O)CH <sup>•-</sup> and CH <sub>3</sub> S(O)CH <sup>•-</sup> •H <sub>2</sub> O Carbene Anions by Photoelectron Imaging and Photofragment Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3528-3534.	2.5	3

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37	Titelbild: The Lowest Singlet and Triplet States of the Oxyallyl Diradical (Angew. Chem. 45/2009). Angewandte Chemie, 2009, 121, 8531-8531.	2.0	0
38	Cover Picture: The Lowest Singlet and Triplet States of the Oxyallyl Diradical (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	13.8	0
39	Insight into the Adsorption Structure of TIPS-Pentacene on Noble Metal Surfaces. Journal of Physical Chemistry C, 2022, 126, 2689-2698.	3.1	0