

Christian Huck

List of Publications by Year in descending order

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29
papers

3,785
citations

471509

17
h-index

477307

29
g-index

29
all docs

29
docs citations

29
times ranked

4817
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Surface-Enhanced Infrared Spectroscopy Using Resonant Nanoantennas. Chemical Reviews, 2017, 117, 5110-5145.	47.7	457
3	Optical Nanoantennas for Multiband Surface-Enhanced Infrared and Raman Spectroscopy. ACS Nano, 2013, 7, 3522-3531.	14.6	201
4	Surface-Enhanced Infrared Spectroscopy Using Nanometer-Sized Gaps. ACS Nano, 2014, 8, 4908-4914.	14.6	192
5	Experimental Verification of the Spectral Shift between Near- and Far-Field Peak Intensities of Plasmonic Infrared Nanoantennas. Physical Review Letters, 2013, 110, 203902.	7.8	144
6	Plasmonic Enhancement of Infrared Vibrational Signals: Nanoslits versus Nanorods. ACS Photonics, 2015, 2, 1489-1497.	6.6	95
7	Gold Nanoantennas on a Pedestal for Plasmonic Enhancement in the Infrared. ACS Photonics, 2015, 2, 497-505.	6.6	76
8	Importance of Plasmonic Scattering for an Optimal Enhancement of Vibrational Absorption in SEIRA with Linear Metallic Antennas. Journal of Physical Chemistry C, 2015, 119, 26652-26662.	3.1	75
9	Infrared Optical Properties of Nanoantenna Dimers with Photochemically Narrowed Gaps in the 5 nm Regime. ACS Nano, 2012, 6, 7326-7332.	14.6	65
10	Impact of the plasmonic near- and far-field resonance-energy shift on the enhancement of infrared vibrational signals. Physical Chemistry Chemical Physics, 2015, 17, 21169-21175.	2.8	61
11	Strong coupling between phonon-polaritons and plasmonic nanorods. Optics Express, 2016, 24, 25528.	3.4	39
12	AFM-IR and IR-SNOM for the Characterization of Small Molecule Organic Semiconductors. Journal of Physical Chemistry C, 2020, 124, 5331-5344.	3.1	29
13	Wavelength Scaling in Antenna-Enhanced Infrared Spectroscopy: Toward the Far-IR and THz Region. ACS Photonics, 2017, 4, 45-51.	6.6	28
14	Porous Gold Nanowires: Plasmonic Response and Surface-Enhanced Infrared Absorption. Advanced Optical Materials, 2016, 4, 1838-1845.	7.3	22
15	Chemical Identification of Individual Fine Dust Particles with Resonant Plasmonic Enhancement of Nanoslits in the Infrared. ACS Photonics, 2017, 4, 560-566.	6.6	21
16	Nanoantenna-Enhanced Infrared Spectroscopic Chemical Imaging. ACS Sensors, 2017, 2, 655-662.	7.8	19
17	Self-Organized Nanorod Arrays for Large-Area Surface-Enhanced Infrared Absorption. ACS Applied Materials & Interfaces, 2020, 12, 11155-11162.	8.0	19
18	Resonant Plasmonic Nanoslits Enable in Vitro Observation of Single-Monolayer Collagen-Peptide Dynamics. ACS Sensors, 2019, 4, 1966-1972.	7.8	16

#	ARTICLE	IF	CITATIONS
19	Impact of Metal-Optical Properties on Surface-Enhanced Infrared Absorption. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15678-15687.	3.1	14
20	How adsorbates alter the metallic behavior of quasi-1D electron systems of the Si(5 \times 5)-Au surface. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 195001.	1.8	14
21	Plasmon Standing Waves by Oxidation of Si(553) \times Au. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9400-9406.	3.1	13
22	Chemical Identification of Single Ultrafine Particles Using Surface-Enhanced Infrared Absorption. <i>Physical Review Applied</i> , 2019, 11, .	3.8	11
23	Experimental verification of agglomeration effects in infrared spectra on micron-sized particles. <i>Astronomy and Astrophysics</i> , 2018, 619, A110.	5.1	7
24	Plasmonic Light Scattering and Infrared Vibrational Signal Enhancement. <i>ACS Symposium Series</i> , 2016, , 1-19.	0.5	3
25	How Intrinsic Phonons Manifest in Infrared Plasmonic Resonances of Crystalline Lead Nanowires. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19302-19307.	3.1	3
26	Electron-beam lithography of cinnamate polythiophene films: conductive nanorods for electronic applications. <i>Chemical Science</i> , 2022, 13, 7880-7885.	7.4	3
27	Deposition-Dependent Morphology and Infrared Vibrational Spectra of Brominated Tetraazaperopyrene Layers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 769-779.	3.1	2
28	Electron-Beam Irradiation of Cinnamate Films Affords Nanoscale Patterned Substrates for Use in Devices and as Scaffolds in Tissue Engineering. <i>ACS Applied Nano Materials</i> , 2020, 3, 7365-7370.	5.0	2
29	Interface properties and dopability of an organic semiconductor: TAPP-Br variable as molecule but inert in the condensed phase. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9898-9908.	5.5	1