

# Zee Hwan Kim

## List of Publications by Year in descending order

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61  
papers

3,209  
citations

159585

30  
h-index

149698

56  
g-index

61  
all docs

61  
docs citations

61  
times ranked

4321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatially Controlled Fabrication of Surface-Enhanced Raman Scattering Hot Spots through Photoinduced Dewetting of Silver Thin Films. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2969-2975.	4.6	7
2	Molecular vibrational imaging at nanoscale. <i>Journal of Chemical Physics</i> , 2022, 156, 160902.	3.0	3
3	Self-Referenced SERS Thermometry of Molecules on a Metallic Nanostructure. <i>Journal of Physical Chemistry C</i> , 2022, 126, 451-458.	3.1	7
4	Radical-Mediated C–C Coupling of Alcohols Induced by Plasmonic Hot Carriers. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3740-3747.	4.6	3
5	EIN3-Mediated Ethylene Signaling Attenuates Auxin Response during Hypocotyl Thermomorphogenesis. <i>Plant and Cell Physiology</i> , 2021, 62, 708-720.	3.1	13
6	Stacking-Specific Reversible Oxidation of Bilayer Graphene. <i>Chemistry of Materials</i> , 2021, 33, 1249-1256.	6.7	4
7	Direct Visualization of Gap-Plasmon Propagation on a Near-Touching Nanowire Dimer. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9313-9320.	4.6	10
8	Defect-engineered MoS <sub>2</sub> with extended photoluminescence lifetime for high-performance hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2019, 7, 10173-10178.	5.5	34
9	Single-Molecule Surface-Enhanced Raman Scattering as a Probe of Single-Molecule Surface Reactions: Promises and Current Challenges. <i>Accounts of Chemical Research</i> , 2019, 52, 3008-3017.	15.6	60
10	Fabrication of plasmonic silver nanoparticle arrays by laser-induced dewetting of commercial silver paste. <i>Optics and Laser Technology</i> , 2019, 112, 151-158.	4.6	4
11	Chemical reactions driven by plasmon-induced hot carriers. <i>Applied Materials Today</i> , 2019, 16, 112-119.	4.3	49
12	A quantum dot-silica composite as an efficient spectral converter in a luminescent down-shifting layer of organic photovoltaic devices. <i>New Journal of Chemistry</i> , 2019, 43, 18843-18847.	2.8	2
13	Electric Field Effect on Condensed-Phase Molecular Systems. VI. Field-Driven Orientation of Hydrogen Chloride in an Argon Matrix. <i>Journal of Physical Chemistry A</i> , 2018, 122, 2871-2876.	2.5	14
14	Infrared Spectroscopy and Imaging at Nanometer Scale. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 415-420.	1.9	0
15	Frequency-Domain Proof of the Existence of Atomic-Scale SERS Hot-Spots. <i>Nano Letters</i> , 2018, 18, 262-271.	9.1	77
16	High Contrast Detection of Water-Filled Terahertz Nanotrenches. <i>Advanced Optical Materials</i> , 2018, 6, 1800582.	7.3	16
17	Mapping of Bernal and non-Bernal stacking domains in bilayer graphene using infrared nanoscopy. <i>Nanoscale</i> , 2017, 9, 4191-4195.	5.6	15
18	Identification of the First Elementary Step in the Photocatalytic Reduction of Nitrobenzenethiols on a Metallic Surface. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4099-4104.	4.6	30

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19	Stem-piped light activates phytochrome B to trigger light responses in <i>Arabidopsis thaliana</i> roots. <i>Science Signaling</i> , 2016, 9, ra106.	3.6	145
20	Far-Field and Near-Field Investigation of Longitudinal Plasmons of AgAuAg Nanorods. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21082-21090.	3.1	6
21	Metal-Catalyzed Chemical Reaction of Single Molecules Directly Probed by Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2016, 138, 4673-4684.	13.7	151
22	A tunable Au core–Ag shell nanoparticle tip for tip-enhanced spectroscopy. <i>Analyst</i> , 2016, 141, 5066-5070.	3.5	11
23	Nanostar probes for tip-enhanced spectroscopy. <i>Nanoscale</i> , 2016, 8, 987-994.	5.6	35
24	Stacking Structures of Few-Layer Graphene Revealed by Phase-Sensitive Infrared Nanoscopy. <i>ACS Nano</i> , 2015, 9, 6765-6773.	14.6	35
25	Single-molecule surface-enhanced Raman scattering: Current status and future perspective. <i>Frontiers of Physics</i> , 2014, 9, 25-30.	5.0	18
26	Real-Space Mapping of Hole Plasmons. <i>Bulletin of the Korean Chemical Society</i> , 2014, 35, 953-954.	1.9	0
27	Electroless deposition of SERS active Au-nanostructures on variety of metallic substrates. <i>Biochip Journal</i> , 2013, 7, 375-385.	4.9	5
28	Localized plasmon resonances of bimetallic AgAuAg nanorods. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4190-4194.	2.8	11
29	$b_{22}$ Peaks in SERS Spectra of 4-Aminobenzenethiol: A Photochemical Artifact or a Real Chemical Enhancement?. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1079-1086.	4.6	60
30	Plasmonic Scissors for Molecular Design. <i>Chemistry - A European Journal</i> , 2013, 19, 14958-14962.	3.3	89
31	Optical Interferometric Imaging of Sub-50 nm Semiconductor Nanoparticles. <i>Bulletin of the Korean Chemical Society</i> , 2013, 34, 2833-2834.	1.9	0
32	Role of in-plane polarizability of the tip in scattering near-field microscopy of a plasmonic nanoparticle. <i>Optics Express</i> , 2012, 20, 8689.	3.4	28
33	Effect of ring torsion on intramolecular vibrational redistribution dynamics of 1,1'-binaphthyl and 2,2'-binaphthyl. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 840-848.	2.8	6
34	Coumarin-Cu(II) Ensemble-Based Cyanide Sensing Chemodosimeter. <i>Organic Letters</i> , 2011, 13, 5056-5059.	4.6	216
35	Charge Transfer Enhancement in the SERS of a Single Molecule. <i>Nano Letters</i> , 2010, 10, 4040-4048.	9.1	278
36	A Nanoprism Probe for Nano-optical Applications. <i>Advanced Materials</i> , 2009, 21, 1238-1242.	21.0	11

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37	Femtosecond characterization of vibrational optical activity of chiral molecules. <i>Nature</i> , 2009, 458, 310-313.	27.8	168
38	One-Step Synthesis of Au@Pd Core-Shell Nanooctahedron. <i>Journal of the American Chemical Society</i> , 2009, 131, 17036-17037.	13.7	327
39	Real-Space Mapping of the Strongly Coupled Plasmons of Nanoparticle Dimers. <i>Nano Letters</i> , 2009, 9, 3619-3625.	9.1	134
40	Surface-Enhanced Raman Scattering from a Single Nanoparticle-Plane Junction*. <i>ChemPhysChem</i> , 2008, 9, 2491-2494.	2.1	69
41	Polarization-selective mapping of near-field intensity and phase around gold nanoparticles using apertureless near-field microscopy. <i>Optics Express</i> , 2008, 16, 1733.	3.4	49
42	Conformational study of jet-cooled L-phenylglycine. <i>Journal of Chemical Physics</i> , 2008, 128, 184313.	3.0	4
43	Axially graded heteroepitaxy and Raman spectroscopic characterizations of Si <sub>1-x</sub> Ge <sub>x</sub> nanowires. <i>Applied Physics Letters</i> , 2008, 92, 263111.	3.3	18
44	Polarization-Selective Imaging of the Enhanced Local Field at Gold Nanoparticle Junctions. <i>Journal of the Korean Physical Society</i> , 2008, 52, 17-20.	0.7	8
45	Red Emitting Phenothiazine Dendrimers Encapsulated 2-[2-(4-Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 427 Td (Dimethylammonium) Materials, 2007, 19, 42-50.	6.7	52
46	Nanometer-Scale Dielectric Imaging of Semiconductor Nanoparticles: Size-Dependent Dipolar Coupling and Contrast Reversal. <i>Nano Letters</i> , 2007, 7, 2258-2262.	9.1	29
47	High-Resolution Apertureless Near-Field Optical Imaging Using Gold Nanosphere Probes. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19804-19809.	2.6	49
48	Lanthanitin: A Chiral Nanoball Encapsulating 18 Lanthanum Ions by Ferritin-Like Assembly. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 8134-8138.	13.8	74
49	Correlated energy disposal and scattering dynamics of the Cl CD <sub>4</sub> ( $\hat{I}_{1/2} = 2$ ) reaction. <i>Molecular Physics</i> , 2005, 103, 1837-1846.	1.7	15
50	Nanometer-Scale Optical Imaging of Epitaxially Grown GaN and InN Islands Using Apertureless Near-Field Microscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8503-8508.	2.6	28
51	Bond and mode selectivity in the reaction of atomic chlorine with vibrationally excited CH <sub>2</sub> D <sub>2</sub> . <i>Journal of Chemical Physics</i> , 2004, 120, 791-799.	3.0	68
52	Photodissociation of O <sub>2</sub> via the Herzberg continuum: Measurements of O-atom alignment and orientation. <i>Journal of Chemical Physics</i> , 2003, 118, 10566-10574.	3.0	25
53	Channel-specific angular distributions of HCl and CH <sub>3</sub> products from the reaction of atomic chlorine with stretch-excited methane. <i>Journal of Chemical Physics</i> , 2002, 117, 3232-3242.	3.0	54
54	Comparison of near-threshold reactivity of ground-state and spin-orbit excited chlorine atoms with methane. <i>Journal of Chemical Physics</i> , 2001, 115, 179-183.	3.0	36

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55	Vibrational Control in the Reaction of Methane with Atomic Chlorine. Journal of the American Chemical Society, 2001, 123, 12714-12715.	13.7	83
56	Oriented chlorine atoms as a probe of the nonadiabatic photodissociation dynamics of molecular chlorine. Journal of Chemical Physics, 2000, 113, 9022-9031.	3.0	57
57	Speed-Dependent Photofragment Orientation in the Photodissociation of OCS at 223 nm. Journal of Physical Chemistry A, 1999, 103, 10144-10148.	2.5	47
58	Measurements of Cl-atom photofragment angular momentum distributions in the photodissociation of Cl <sub>2</sub> and ICl. Journal of Chemical Physics, 1999, 110, 3351-3359.	3.0	75
59	Orientation as a probe of photodissociation dynamics. Faraday Discussions, 1999, 113, 27-36.	3.2	30
60	Femtosecond Activation of Reactions and the Concept of Nonergodic Molecules. Science, 1998, 279, 847-851.	12.6	153
61	Photofragment Helicity Caused by Matter-Wave Interference from Multiple Dissociative States. , 1998, 281, 1346-1349.		104