

# Oh-Hoon Kwon

## List of Publications by Year in descending order

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93  
papers

4,038  
citations

117625

34  
h-index

118850

62  
g-index

99  
all docs

99  
docs citations

99  
times ranked

4663  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrachain photophysics of a donor-acceptor copolymer. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 1982-1992.	2.8	7
2	Acid-base reaction of a superphotoacid with a cooperative amide hydrogen-bonded chain. <i>Bulletin of the Korean Chemical Society</i> , 2022, 43, 501-507.	1.9	1
3	Ultrafast Excited-State Proton Transfer of a Cationic Superphotoacid in a Nanoscopic Water Pool. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1275-1283.	2.6	2
4	Acid-base reaction of a cationic hydration probe in vicinity of anionic interface of AOT reverse micelles. <i>Journal of Molecular Liquids</i> , 2021, 326, 115270.	4.9	6
5	Planar Organic Bilayer Heterojunctions Fabricated on Water with Ultrafast Donor-Acceptor Charge Transfer. <i>Solar Rrl</i> , 2021, 5, 2100326.	5.8	8
6	Fullerene-Based Triads with Controlled Alkyl Spacer Length as Photoactive Materials for Single-Component Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 43174-43185.	8.0	8
7	Optimal Length of Hybrid Metal-Semiconductor Nanorods for Photocatalytic Hydrogen Generation. <i>ACS Catalysis</i> , 2021, 11, 13303-13311.	11.2	14
8	Viable Mixing Protocol Based on Formulated Equations for Achieving Desired Molecular Weight and Maximal Charge Separation of Photovoltaic Polymer. <i>Advanced Energy Materials</i> , 2021, 11, 2102594.	19.5	19
9	Imaging Individual Molecules Using Liquid-phase TEM - Surprises and Research Opportunities. <i>Microscopy and Microanalysis</i> , 2021, 27, 3-4.	0.4	1
10	Cathodoluminescence in Ultrafast Electron Microscopy. <i>ACS Nano</i> , 2021, 15, 19480-19489.	14.6	8
11	Intermediate states of molecular self-assembly from liquid-cell electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1283-1292.	7.1	48
12	Hydrogen-Bond Free Energy of Local Biological Water ( <i>Angew. Chem.</i> 18/2020). <i>Angewandte Chemie</i> , 2020, 132, 7339-7339.	2.0	0
13	Hydrogen-Bond Dynamics and Energetics of Biological Water. <i>ChemPlusChem</i> , 2020, 85, 2657-2665.	2.8	10
14	Light-Induced Anisotropic Morphological Dynamics of Black Phosphorus Membranes Visualized by Dark-Field Ultrafast Electron Microscopy. <i>ACS Nano</i> , 2020, 14, 11383-11393.	14.6	21
15	Residence and diffusion of a dynamically prototropic hydration probe in AOT reverse micelles. <i>Journal of Molecular Liquids</i> , 2020, 320, 114346.	4.9	8
16	Hydrogen-Bond Free Energy of Local Biological Water. <i>Angewandte Chemie</i> , 2020, 132, 7155-7162.	2.0	3
17	Hydrogen-Bond Free Energy of Local Biological Water. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7089-7096.	13.8	4
18	Efficient Exciton Diffusion in Organic Bilayer Heterojunctions with Nonfullerene Small Molecular Acceptors. <i>ACS Energy Letters</i> , 2020, 5, 1628-1635.	17.4	52

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19	Anisotropic Structural Dynamics of Few-Layer Black Phosphorus Revealed by Ultrafast Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1650-1651.	0.4	0
20	Ultrafast Electron Microscopy Visualizes Acoustic Vibrations of Plasmonic Nanorods at the Interfaces. <i>Matter</i> , 2019, 1, 481-495.	10.0	31
21	Chemoselective Trifluoroethylation Reactions of Quinazolinones and Identification of Photostability. <i>Journal of Organic Chemistry</i> , 2019, 84, 6737-6751.	3.2	26
22	Mechanistic insight into the sensing of nitroaromatic compounds by metal-organic frameworks. <i>Communications Chemistry</i> , 2019, 2, .	4.5	82
23	Surface versus Bulk: Charge Carriers Play by Different Rules. <i>CheM</i> , 2019, 5, 497-499.	11.7	0
24	Time-resolved spectroscopy of the ensembled photoluminescence of nitrogen- and boron/nitrogen-doped carbon dots. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 11673-11681.	2.8	27
25	Carbon Dots: Bottom-Up Syntheses, Properties, and Light-Harvesting Applications. <i>Chemistry - an Asian Journal</i> , 2018, 13, 586-598.	3.3	101
26	Ultrafast electron energy-loss spectroscopy in transmission electron microscopy. <i>MRS Bulletin</i> , 2018, 43, 497-503.	3.5	22
27	Longer-Lasting Electron-Based Microscopy of Single Molecules in Aqueous Medium. <i>ACS Nano</i> , 2018, 12, 8572-8578.	14.6	24
28	Use of a Direct Electron-Detection Camera in Ultrafast Electron Microscopy for Low Dose Rate Time-Resolved Imaging. <i>Microscopy and Microanalysis</i> , 2018, 24, 1962-1963.	0.4	0
29	Morphology Tunable Hybrid Carbon Nanosheets with Solvatochromism. <i>Advanced Materials</i> , 2017, 29, 1701075.	21.0	42
30	Ultrafast electron microscopy integrated with a direct electron detection camera. <i>Structural Dynamics</i> , 2017, 4, 044023.	2.3	36
31	Tunable Photoluminescence across the Visible Spectrum and Photocatalytic Activity of Mixed-Valence Rhenium Oxide Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 15088-15093.	13.7	33
32	Synergistic Configuration of Diols as Brønsted Bases. <i>Chemistry - A European Journal</i> , 2017, 23, 17179-17185.	3.3	4
33	Crystallization-Induced Emission Enhancement and Amplified Spontaneous Emission from a CF <sub>3</sub> -Containing Excited-State Intramolecular Proton-Transfer Molecule. <i>Advanced Optical Materials</i> , 2017, 5, 1700353.	7.3	41
34	Frontispiece: Synergistic Configuration of Diols as Brønsted Bases. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0
35	Proton diffusion dynamics along a diol as a proton-conducting wire in a photo-amphiprotic model system. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32826-32839.	2.8	5
36	Integrative Approach toward Uncovering the Origin of Photoluminescence in Dual Heteroatom-Doped Carbon Nanodots. <i>Chemistry of Materials</i> , 2016, 28, 6840-6847.	6.7	128

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37	Endoplasmic Reticulum-Localized Iridium(III) Complexes as Efficient Photodynamic Therapy Agents via Protein Modifications. <i>Journal of the American Chemical Society</i> , 2016, 138, 10968-10977.	13.7	330
38	Photoinduced strong acid-weak base reactions in a polar aprotic solvent. <i>Methods and Applications in Fluorescence</i> , 2016, 4, 024004.	2.3	16
39	Alcohol Dimer is Requisite to Form an Alkyl Oxonium Ion in the Proton Transfer of a Strong (Photo)Acid to Alcohol. <i>Chemistry - A European Journal</i> , 2016, 22, 4340-4344.	3.3	18
40	The critical size of hydrogen-bonded alcohol clusters as effective Brønsted bases in solutions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24880-24889.	2.8	13
41	Alcohol Dimer is Requisite to Form an Alkyl Oxonium Ion in the Proton Transfer of a Strong (Photo)Acid to Alcohol. <i>Chemistry - A European Journal</i> , 2016, 22, 4301-4301.	3.3	1
42	Origin of ultraweak fluorescence of 8-hydroxyquinoline in water: photoinduced ultrafast proton transfer. <i>RSC Advances</i> , 2016, 6, 9812-9821.	3.6	25
43	Observing in space and time the ephemeral nucleation of liquid-to-crystal phase transitions. <i>Nature Communications</i> , 2015, 6, 8639.	12.8	18
44	Single-nanoparticle Phase Transitions Visualized by Ultrafast Electron Microscopy. , 2014, , .		0
45	4D Imaging and Diffraction Dynamics of Single-Particle Phase Transition in Heterogeneous Ensembles. <i>Nano Letters</i> , 2014, 14, 946-954.	9.1	27
46	Single-nanoparticle phase transitions visualized by four-dimensional electron microscopy. <i>Nature Chemistry</i> , 2013, 5, 395-402.	13.6	139
47	Chirped imaging pulses in four-dimensional electron microscopy: femtosecond pulsed hole burning. <i>New Journal of Physics</i> , 2012, 14, 053046.	2.9	27
48	Water-wire catalysis in photoinduced acid-base reactions. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 8974.	2.8	27
49	Macromolecular structural dynamics visualized by pulsed dose control in 4D electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6026-6031.	7.1	44
50	Hydration dynamics at fluorinated protein surfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 17101-17106.	7.1	62
51	Nonchaotic Nonlinear Motion Visualized in Complex Nanostructures by Stereographic 4D Electron Microscopy. <i>Nano Letters</i> , 2010, 10, 3190-3198.	9.1	20
52	4D Electron Tomography. <i>Science</i> , 2010, 328, 1668-1673.	12.6	115
53	Solvation in protein (un)folding of melittin tetramer-monomer transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 12593-12598.	7.1	53
54	Charge Transfer Assisted by Collective Hydrogen-Bonding Dynamics. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 6251-6256.	13.8	56

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55	4D ultrafast electron microscopy: Imaging of atomic motions, acoustic resonances, and moiré fringe dynamics. <i>Ultramicroscopy</i> , 2009, 110, 7-19.	1.9	65
56	EELS femtosecond resolved in 4D ultrafast electron microscopy. <i>Chemical Physics Letters</i> , 2009, 468, 107-111.	2.6	66
57	Triplet-State Acid-Base Reactions of 1-Methyl-7-oxyquinolinium in Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 10589-10592.	2.5	7
58	Ground-State Proton Transfer of 7-Hydroxyquinoline Confined in Biologically Relevant Water Nanopools. <i>Journal of Physical Chemistry C</i> , 2009, 113, 16110-16115.	3.1	30
59	Dynamics of Chemical Bonding Mapped by Energy-Resolved 4D Electron Microscopy. <i>Science</i> , 2009, 325, 181-184.	12.6	170
60	Direct Observation of Martensitic Phase-Transformation Dynamics in Iron by 4D Single-Pulse Electron Microscopy. <i>Nano Letters</i> , 2009, 9, 3954-3962.	9.1	46
61	Proton transport of water in acid-base reactions of 7-hydroxyquinoline. <i>Chemical Communications</i> , 2009, , 926.	4.1	44
62	Triple proton transfer of excited 7-hydroxyquinoline along a hydrogen-bonded water chain in ethers: secondary solvent effect on the reaction rate. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 1611.	2.9	38
63	Dimeric Capsules with a Nanoscale Cavity for [60]Fullerene Encapsulation. <i>Chemistry - A European Journal</i> , 2008, 14, 5353-5359.	3.3	14
64	Excited-state proton transfer and geminate recombination in the molecular cage of $\beta$ -cyclodextrin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 105-109.	3.9	15
65	4D Imaging of Transient Structures and Morphologies in Ultrafast Electron Microscopy. <i>Science</i> , 2008, 322, 1227-1231.	12.6	243
66	Photo-induced proton-transfer cycle of 2-naphthol in faujasite zeolitic nanocavities. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 153-158.	2.8	16
67	Nanoscale Mechanical Drumming Visualized by 4D Electron Microscopy. <i>Nano Letters</i> , 2008, 8, 3557-3562.	9.1	81
68	Reply to Catalán: Double-proton-transfer dynamics of photo-excited 7-azaindole dimers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, .	7.1	11
69	4D visualization of embryonic, structural crystallization by single-pulse microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8519-8524.	7.1	35
70	Comment on "On the Doubly Hydrogen Bonded Dimer of 7-Azaindole (0.1 M) as a Model for DNA Base Pairs in Acetonitrile Solutions at Room Temperature". <i>Nature Precedings</i> , 2008, , .	0.1	0
71	Double proton transfer dynamics of model DNA base pairs in the condensed phase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8703-8708.	7.1	160
72	Imidazole-Based Excited-State Intramolecular Proton-Transfer (ESIPT) Materials: Observation of Thermally Activated Delayed Fluorescence (TDF). <i>Journal of Physical Chemistry A</i> , 2007, 111, 9649-9653.	2.5	85

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73	Atomic-Scale Imaging in Real and Energy Space Developed in Ultrafast Electron Microscopy. <i>Nano Letters</i> , 2007, 7, 2545-2551.	9.1	88
74	Enhanced solid-state fluorescence in the oxadiazole-based excited-state intramolecular proton-transfer (ESIPT) material: Synthesis, optical property, and crystal structure. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007, 191, 51-58.	3.9	28
75	Biphasic Tautomerization Dynamics of Excited 7-Hydroxyquinoline in Reverse Micelles. <i>Journal of Physical Chemistry B</i> , 2006, 110, 11997-12004.	2.6	47
76	Excited-State Triple Proton Transfer of 7-Hydroxyquinoline along a Hydrogen-Bonded Alcohol Chain: Vibrationally Assisted Proton Tunneling. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 415-419.	13.8	89
77	Ab Initio Study of the Electronic Spectrum of 7-Hydroxyquinoline. <i>Chemistry Letters</i> , 2005, 34, 330-331.	1.3	1
78	Mesoscopic linear alignment and thermal-relaxation dynamics of aggregated gold nanorods. <i>European Physical Journal D</i> , 2005, 34, 243-246.	1.3	7
79	Excited-state deprotonation dynamics of 2-naphthol in NaX nanoreactors. <i>Studies in Surface Science and Catalysis</i> , 2005, , 741-746.	1.5	1
80	Excited-State Tautomerization Dynamics of 7-Hydroxyquinoline in $\beta$ -Cyclodextrin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3938-3943.	2.6	53
81	Excited-State Double Proton Transfer of 7-Azaindole in Water Nanopools. <i>Journal of Physical Chemistry B</i> , 2005, 109, 20479-20484.	2.6	50
82	Proton Transfer of Excited 7-Azaindole in Reverse-Micellar Methanol Nanopools: Even Faster than in Bulk Methanol. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8049-8052.	2.6	35
83	Imidazole-Based Excited-State Intramolecular Proton-Transfer Materials: Synthesis and Amplified Spontaneous Emission from a Large Single Crystal. <i>Journal of the American Chemical Society</i> , 2005, 127, 10070-10074.	13.7	318
84	Molecular Tripods Showing Fluorescence Enhancement upon Binding to Streptavidin. <i>Organic Letters</i> , 2005, 7, 111-114.	4.6	20
85	Strong fluorescence emission induced by supramolecular assembly and gelation: luminescent organogel from nonemissive oxadiazole-based benzene-1,3,5-tricarboxamide gelator Electronic Supplementary Information (ESI) available: Synthetic and experimental details, X-ray diffractograms, H-bonded aggregate-state absorption and emission spectra, and original data for Fig. 1c and 2. See <a href="https://www.rsc.org/journals-books-databases/2011/649/41/Chemical-Communications-2004-70">https://www.rsc.org/journals-books-databases/2011/649/41/Chemical-Communications-2004-70</a> .	4.1	135
86	Asymmetric Double Proton Transfer of Excited 1:1 7-Azaindole/Alcohol Complexes with Anomalously Large and Temperature-Independent Kinetic Isotope Effects. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5792-5796.	13.8	83
87	Formation Mechanism of Anthracene Dimers and Excimers in NaY Zeolitic Nanocavities. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3970-3974.	2.6	25
88	Migration of Protons during the Excited-State Tautomerization of Aqueous 3-Hydroxyquinoline. <i>Journal of Physical Chemistry A</i> , 2004, 108, 5932-5937.	2.5	32
89	Excited-State Proton-Relay Dynamics of 7-Hydroxyquinoline Embedded in a Solid Matrix of Poly(2-hydroxyethyl methacrylate). <i>ChemPhysChem</i> , 2003, 4, 1079-1083.	2.1	26
90	Polymer-Mediated Proton Transfers of 7-Azaindole Embedded in Poly(2-hydroxyethyl methacrylate) Matrix. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 377, 297-300.	0.9	0

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91	Photophysics of C <sub>60</sub> and C <sub>60</sub> - in faujasite zeolites. European Physical Journal D, 2002, 18, 69-75.	1.3	3
92	Anionic and Upper-Excited Fluorescence of C <sub>60</sub> Encapsulated in Y Zeolitic Nanocavity. Journal of Physical Chemistry B, 2001, 105, 4195-4199.	2.6	15
93	Photoluminescence dynamics and spectra of C <sub>60</sub> and C <sub>60</sub> in VPI-5 molecular cages. Chemical Physics Letters, 2001, 346, 195-200.	2.6	11