

# Byung-Kuk Yoo

## List of Publications by Year in descending order

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25  
papers

404  
citations

687363

13  
h-index

752698

20  
g-index

26  
all docs

26  
docs citations

26  
times ranked

659  
citing authors

#	ARTICLE	IF	CITATIONS
1	Confinement induces actin flow in a meiotic cytoplasm. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11705-11710.	7.1	50
2	Picosecond primary structural transition of the heme is retarded after nitric oxide binding to heme proteins. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 13678-13683.	7.1	45
3	Optical manipulation of magnetic vortices visualized in situ by Lorentz electron microscopy. Science Advances, 2018, 4, eaat3077.	10.3	39
4	On the dynamical nature of the active center in a single-site photocatalyst visualized by 4D ultrafast electron microscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 503-508.	7.1	37
5	Reactivity and Dynamics of H <sub>2</sub> S, NO, and O <sub>2</sub> Interacting with Hemoglobins from <i>Lucina pectinata</i> . Biochemistry, 2013, 52, 7007-7021.	2.5	35
6	Time-resolved spectroscopy of the ensembled photoluminescence of nitrogen- and boron/nitrogen-doped carbon dots. Physical Chemistry Chemical Physics, 2018, 20, 11673-11681.	2.8	27
7	Picosecond to Second Dynamics Reveals a Structural Transition in <i>Clostridium botulinum</i> NO-Sensor Triggered by the Activator BAY-41-2272. ACS Chemical Biology, 2012, 7, 2046-2054.	3.4	22
8	Motion of proximal histidine and structural allosteric transition in soluble guanylate cyclase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1697-704.	7.1	21
9	Quaternary Structure Controls Ligand Dynamics in Soluble Guanylate Cyclase. Journal of Biological Chemistry, 2012, 287, 6851-6859.	3.4	18
10	Observing in space and time the ephemeral nucleation of liquid-to-crystal phase transitions. Nature Communications, 2015, 6, 8639.	12.8	18
11	Absorption Band III Kinetics Probe the Picosecond Heme Iron Motion Triggered by Nitric Oxide Binding to Hemoglobin and Myoglobin. Journal of Physical Chemistry B, 2012, 116, 4106-4114.	2.6	15
12	Picosecond Binding of the His Ligand to Four-Coordinate Heme in Cytochrome c: A One-Way Gate for Releasing Proximal NO. Journal of the American Chemical Society, 2013, 135, 3248-3254.	13.7	15
13	Structural changes and picosecond to second dynamics of cytochrome c in interaction with nitric oxide in ferrous and ferric redox states. Physical Chemistry Chemical Physics, 2017, 19, 21317-21334.	2.8	14
14	CaMn <sub>3</sub> IVO <sub>4</sub> Cubane Models of the Oxygen-Evolving Complex: Spin Ground States $S=9/2$ and the Effect of Oxo Protonation. Angewandte Chemie - International Edition, 2021, 60, 17671-17679.	13.8	14
15	Photon-Induced Near-Field Electron Microscopy of Eukaryotic Cells. Angewandte Chemie - International Edition, 2017, 56, 11498-11501.	13.8	13
16	4D electron microscopy of T cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22014-22019.	7.1	6
17	Ultrafast dynamics of heme distortion in the O <sub>2</sub> -sensor of a thermophilic anaerobe bacterium. Communications Chemistry, 2021, 4, .	4.5	4
18	Nanoscale-Femtosecond Imaging of Evanescent Surface Plasmons on Silver Film by Photon-Induced Near-Field Electron Microscopy. Nano Letters, 2022, 22, 2009-2015.	9.1	4

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19	Anomalous Acid-Base Equilibria in Biologically Relevant Water Nanopools. Bulletin of the Korean Chemical Society, 2012, 33, 3493-3496.	1.9	3
20	Biochemical perturbations of the mitotic spindle in <i>Xenopus</i> extracts using a diffusion-based microfluidic assay. Biomicrofluidics, 2015, 9, 044101.	2.4	2
21	Rebinding of Proximal Histidine in the Cytochrome c' from <i>Alcaligenes xylosoxidans</i> Acts as a Molecular Trap for Nitric Oxide. Springer Series in Chemical Physics, 2009, , 556-558.	0.2	1
22	CaMn 3 IV O 4 Cubane Models of the Oxygen-Evolving Complex: Spin Ground States S <math>9/2</math> and the Effect of Oxo Protonation. Angewandte Chemie, 2021, 133, 17812-17820.	2.0	1
23	Photon-Induced Near-Field Electron Microscopy of Eukaryotic Cells. Angewandte Chemie, 2017, 129, 11656-11659.	2.0	0
24	Optical Quenching of Magnetic Vortex Visualized In Situ by Lorentz Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 912-913.	0.4	0
25	Understanding the NO-Sensing Mechanism at Molecular Level. Springer Proceedings in Physics, 2008, , 517-524.	0.2	0