Tae-kyu Kim

List of Publications by Year
in descending order

159 papers	6,172 citations	50276 46 h-index	76900 74 g-index
163 all docs	163 docs citations	163 times ranked	6268 citing authors

#	Article	IF	Citations
1	Ultrafast X-ray Diffraction of Transient Molecular Structures in Solution. Science, 2005, 309, 1223-1227.	12.6	230
2	Femtosecond Soft X-ray Spectroscopy of Solvated Transition-Metal Complexes: Deciphering the Interplay of Electronic and Structural Dynamics. Journal of Physical Chemistry Letters, 2011, 2, 880-884.	4.6	169
3	Ultrathin MoS 2 layers anchored exfoliated reduced graphene oxide nanosheet hybrid as a highly efficient cocatalyst for CdS nanorods towards enhanced photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2017, 212, 7-14.	20.2	167
4	Heterostructured WS₂â€MoS₂ Ultrathin Nanosheets Integrated on CdS Nanorods to Promote Charge Separation and Migration and Improve Solarâ€Driven Photocatalytic Hydrogen Evolution. ChemSusChem, 2017, 10, 1563-1570.	6.8	150
5	Few layered black phosphorus/MoS2 nanohybrid: A promising co-catalyst for solar driven hydrogen evolution. Applied Catalysis B: Environmental, 2019, 241, 491-498.	20.2	146
6	Reduced graphene oxide wrapped ZnSâ€“Ag2S ternary composites synthesized via hydrothermal method: Applications in photocatalyst degradation of organic pollutants. Applied Surface Science, 2015, 324, 725-735.	6.1	145
7	Photo-Induced Spin-State Conversion in Solvated Transition Metal Complexes Probed via Time-Resolved Soft X-ray Spectroscopy. Journal of the American Chemical Society, 2010, 132, 6809-6816.	13.7	135
8	Hierarchical dandelion-flower-like cobalt-phosphide modified CdS/reduced graphene oxide-MoS₂ nanocomposites as a noble-metal-free catalyst for efficient hydrogen evolution from water. Catalysis Science and Technology, 2016, 6, 6197-6206.	4.1	131
9	Rational Synthesis of Metalâ€“Organic Framework-Derived Noble Metal-Free Nickel Phosphide Nanoparticles as a Highly Efficient Cocatalyst for Photocatalytic Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2016, 4, 7158-7166.	6.7	131
10	Surface oxygen vacancy assisted electron transfer and shuttling for enhanced photocatalytic activity of a Z-scheme CeO₂â€“AgI nanocomposite. RSC Advances, 2016, 6, 19341-19350.	3.6	131
11	Self-assembly of CeO2 nanostructures/reduced graphene oxide composite aerogels for efficient photocatalytic degradation of organic pollutants in water. Journal of Alloys and Compounds, 2016, 688, 527-536.	5.5	130
12	Hydrazine-assisted formation of ultrathin MoS₂ nanosheets for enhancing their co-catalytic activity in photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2017, 5, 6981-6991.	10.3	120
13	An oxygen-vacancy rich 3D novel hierarchical MoS₂/BiOI/AgI ternary nanocomposite: enhanced photocatalytic activity through photogenerated electron shuttling in a Z-scheme manner. Physical Chemistry Chemical Physics, 2016, 18, 24984-24993.	2.8	119
14	Noble metal-free ultrathin MoS₂ nanosheet-decorated CdS nanorods as an efficient photocatalyst for spectacular hydrogen evolution under solar light irradiation. Journal of Materials Chemistry A, 2016, 4, 18551-18558.	10.3	118
15	Self-assembled macro porous ZnSâ€“graphene aerogels for photocatalytic degradation of contaminants in water. RSC Advances, 2015, 5, 18342-18351.	3.6	108
16	Green synthesis of AgI nanoparticle-functionalized reduced graphene oxide aerogels with enhanced catalytic performance and facile recycling. RSC Advances, 2015, 5, 67394-67404.	3.6	103
17	Transformation of CeO2 into a mixed phase CeO2/Ce2O3 nanohybrid by liquid phase pulsed laser ablation for enhanced photocatalytic activity through Z-scheme pattern. Ceramics International, 2016, 42, 18495-18502.	4.8	103
18	Impulsive solvent heating probed by picosecond x-ray diffraction. Journal of Chemical Physics, 2006, 124, 124504.	3.0	102

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19	Multicomponent transition metal phosphides derived from layered double hydroxide double-shelled nanocages as an efficient non-precious co-catalyst for hydrogen production. Journal of Materials Chemistry A, 2016, 4, 13890-13898.	10.3	102
20	Excellent photocatalytic hydrogen production over CdS nanorods via using noble metal-free copper molybdenum sulfide (Cu2MoS4) nanosheets as co-catalysts. Applied Surface Science, 2017, 396, 421-429.	6.1	100
21	In situ preparation of few-layered WS 2 nanosheets and exfoliation into bilayers on CdS nanorods for ultrafast charge carrier migrations toward enhanced photocatalytic hydrogen production. Journal of Catalysis, 2017, 351, 153-160.	6.2	98
22	Green synthesis of AgI-reduced graphene oxide nanocomposites: Toward enhanced visible-light photocatalytic activity for organic dye removal. Applied Surface Science, 2015, 341, 175-184.	6.1	95
23	Hierarchical BiOI nanostructures supported on a metal organic framework as efficient photocatalysts for degradation of organic pollutants in water. Dalton Transactions, 2017, 46, 6013-6023.	3.3	95
24	Noble metal-free metal-organic framework-derived onion slice-type hollow cobalt sulfide nanostructures: Enhanced activity of CdS for improving photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 224, 230-238.	20.2	93
25	Enhanced photocatalytic activity and anti-photocorrosion of AgI nanostructures by coupling with graphene-analogue boron nitride nanosheets. Ceramics International, 2015, 41, 13793-13803.	4.8	90
26	Highly Durable and Fully Dispersed Cobalt Diatomic Site Catalysts for CO₂ Photoreduction to CH₄. Angewandte Chemie - International Edition, 2022, 61, .	13.8	83
27	Influence of surface-functionalized multi-walled carbon nanotubes on CdS nanohybrids for effective photocatalytic hydrogen production. Applied Catalysis B: Environmental, 2018, 236, 294-303.	20.2	78
28	Modulation of charge carrier pathways in CdS nanospheres by integrating MoS₂ and Ni₂P for improved migration and separation toward enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2017, 7, 641-649.	4.1	76
29	Spatiotemporal Kinetics in Solution Studied by Timeâ€Resolved Xâ€Ray Liquidography (Solution) Tj ETQq1 1 0.784314 rgBT /Overloc	2.1	75
30	Earth abundant transition metal-doped few-layered MoS₂ nanosheets on CdS nanorods for ultra-efficient photocatalytic hydrogen production. Journal of Materials Chemistry A, 2017, 5, 20851-20859.	10.3	75
31	Designing CdS Mesoporous Networks on Coâ€C@Co₉S₈ Doubleâ€Shelled Nanocages as Redoxâ€Mediatorâ€Free Zâ€Scheme Photocatalyst. ChemSusChem, 2018, 11, 245-253.	6.8	74
32	Efficient photocatalytic degradation of methylene blue by heterostructured ZnOâ€“RGO/RuO2 nanocomposite under the simulated sunlight irradiation. Ceramics International, 2015, 41, 6999-7009.	4.8	73
33	Optimization of Active Sites of MoS₂ Nanosheets Using Nonmetal Doping and Exfoliation into Few Layers on CdS Nanorods for Enhanced Photocatalytic Hydrogen Production. ACS Sustainable Chemistry and Engineering, 2017, 5, 7651-7658.	6.7	73
34	Enhanced Photocatalytic Hydrogen Evolution by Integrating Dual Co-Catalysts on Heterophase CdS Nano-Junctions. ACS Sustainable Chemistry and Engineering, 2018, 6, 12835-12844.	6.7	73
35	Polycrystalline tungsten oxide nanofibers for gas-sensing applications. Sensors and Actuators B: Chemical, 2011, 160, 549-554.	7.8	72
36	Nanocatalyst-Based Assay Using DNA-Conjugated Au Nanoparticles for Electrochemical DNA Detection. Langmuir, 2008, 24, 9883-9888.	3.5	68

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37	Spatiotemporal reaction kinetics of an ultrafast photoreaction pathway visualized by time-resolved liquid x-ray diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 9410-9415.	7.1	64
38	Zeolitic imidazolate framework-67 (ZIF-67) rhombic dodecahedrons as full-spectrum light harvesting photocatalyst for environmental remediation. Solid State Sciences, 2016, 62, 82-89.	3.2	60
39	Synthesis of Ultraâ€Small Palladium Nanoparticles Deposited on CdS Nanorods by Pulsed Laser Ablation in Liquid: Role of Metal Nanocrystal Size in the Photocatalytic Hydrogen Production. Chemistry - A European Journal, 2017, 23, 13112-13119.	3.3	59
40	Hydrogenation of 4-nitrophenol to 4-aminophenol at room temperature: Boosting palladium nanocrystals efficiency by coupling with copper via liquid phase pulsed laser ablation. Applied Surface Science, 2017, 401, 314-322.	6.1	56
41	Capturing Transient Structures in the Elimination Reaction of Haloalkane in Solution by Transient X-ray Diffraction. Journal of the American Chemical Society, 2008, 130, 5834-5835.	13.7	54
42	Transient Xâ€ray Diffraction Reveals Global and Major Reaction Pathways for the Photolysis of Iodoform in Solution. Angewandte Chemie - International Edition, 2008, 47, 1047-1050.	13.8	53
43	Reduced-graphene-oxide-wrapped BiOI-AgI heterostructured nanocomposite as a high-performance photocatalyst for dye degradation under solar light irradiation. Solid State Sciences, 2016, 61, 32-39.	3.2	52
44	Time-Resolved X-ray Spectroscopy in the Water Window: Elucidating Transient Valence Charge Distributions in an Aqueous Fe(II) Complex. Journal of Physical Chemistry Letters, 2016, 7, 465-470.	4.6	50
45	Ligand-field symmetry effects in Fe(ii) polypyridyl compounds probed by transient X-ray absorption spectroscopy. Faraday Discussions, 2012, 157, 463.	3.2	49
46	Thick-lens velocity-map imaging spectrometer with high resolution for high-energy charged particles. Journal of Instrumentation, 2014, 9, P05005-P05005.	1.2	49
47	Green synthesis of the reduced graphene oxideâ€“CuI quasi-shellâ€“core nanocomposite: A highly efficient and stable solar-light-induced catalyst for organic dye degradation in water. Applied Surface Science, 2015, 358, 159-167.	6.1	48
48	Photodissociation dynamics of CF3Br at 234 nm: An implication of symmetry reduction during photodissociation. Journal of Chemical Physics, 2001, 115, 10745-10752.	3.0	46
49	Liquid-phase pulsed laser ablation synthesis of graphitized carbon-encapsulated palladium coreâ€“shell nanospheres for catalytic reduction of nitrobenzene to aniline. Applied Surface Science, 2015, 357, 2112-2120.	6.1	46
50	Drastic Improvement of 1D-CdS Solar-Driven Photocatalytic Hydrogen Evolution Rate by Integrating with NiFe Layered Double Hydroxide Nanosheets Synthesized by Liquid-Phase Pulsed-Laser Ablation. ACS Sustainable Chemistry and Engineering, 2018, 6, 16734-16743.	6.7	45
51	Tuning Band Alignments and Charge-Transport Properties through MoSe₂ Bridging between MoS₂ and Cadmium Sulfide for Enhanced Hydrogen Production. ACS Applied Materials & Interfaces, 2018, 10, 26153-26161.	8.0	43
52	Density Functional Theory Assessment of Molecular Structures and Energies of Neutral and Anionic Al_n (n = 2â€“10) Clusters. Journal of Physical Chemistry A, 2013, 117, 9293-9303.	2.5	41
53	Controlled synthesis of heterostructured Ag@AgI/ZnS microspheres with enhanced photocatalytic activity and selective separation of methylene blue from mixture dyes. Journal of the Taiwan Institute of Chemical Engineers, 2016, 66, 200-209.	5.3	41
54	Synthesis of CeO2/Pd nanocomposites by pulsed laser ablation in liquids for the reduction of 4-nitrophenol to 4-aminophenol. Ceramics International, 2015, 41, 12432-12438.	4.8	40

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55	Pyrrolic Nâ€Stabilized Monovalent Ni Singleâ€Atom Electrocatalyst for Efficient CO₂ Reduction: Identifying the Role of Pyrrolicâ€“N and Synergistic Electrocatalysis. Advanced Functional Materials, 2022, 32, .	14.9	40
56	Synthesis of Length-Controlled Aerosol Carbon Nanotubes and Their Dispersion Stability in Aqueous Solution. Langmuir, 2009, 25, 1739-1743.	3.5	39
57	Well-wrapped reduced graphene oxide nanosheets on Nb₃O₇(OH) nanostructures as good electron collectors and transporters for efficient photocatalytic degradation of rhodamine B and phenol. RSC Advances, 2016, 6, 37180-37188.	3.6	39
58	Highly efficient hydrogen generation in water using 1D CdS nanorods integrated with 2D SnS2 nanosheets under solar light irradiation. Applied Surface Science, 2020, 508, 144803.	6.1	39
59	Recent advances in metalâ€“organic framework-based photocatalysts for hydrogen production. Sustainable Energy and Fuels, 2021, 5, 1597-1618.	4.9	39
60	Significant Improvements on BiVO₄@CoPi Photoanode Solar Water Splitting Performance by Extending Visible-Light Harvesting Capacity and Charge Carrier Transportation. ACS Applied Energy Materials, 2020, 3, 4474-4483.	5.1	38
61	Avoided Curve Crossing between the A1 and B1 States in CF2Br2 Photolysis at 234 and 265 nm. Journal of Physical Chemistry A, 2001, 105, 5606-5612.	2.5	36
62	The influence of laser wavelength and fluence on palladium nanoparticles produced by pulsed laser ablation in deionized water. Solid State Sciences, 2014, 37, 96-102.	3.2	36
63	Tracking reaction dynamics in solution by pumpâ€“probe X-ray absorption spectroscopy and X-ray liquidography (solution scattering). Chemical Communications, 2016, 52, 3734-3749.	4.1	35
64	Photochemistry of HgBr2 in methanol investigated using time-resolved X-ray liquidography. Physical Chemistry Chemical Physics, 2010, 12, 11536.	2.8	33
65	Element-Specific Characterization of Transient Electronic Structure of Solvated Fe(II) Complexes with Time-Resolved Soft X-ray Absorption Spectroscopy. Accounts of Chemical Research, 2015, 48, 2957-2966.	15.6	30
66	UV-Photochemistry of the Disulfide Bond: Evolution of Early Photoproducts from Picosecond X-ray Absorption Spectroscopy at the Sulfur K-Edge. Journal of the American Chemical Society, 2018, 140, 6554-6561.	13.7	30
67	Constructing ordered paths to improve the charge separation and light harvesting capacity towards efficient solar water oxidation performance. Applied Catalysis B: Environmental, 2020, 269, 118761.	20.2	30
68	Transient metal-centered states mediate isomerization of a photochromic ruthenium-sulfoxide complex. Nature Communications, 2018, 9, 1989.	12.8	29
69	Using Ultrafast X-ray Spectroscopy To Address Questions in Ligand-Field Theory: The Excited State Spin and Structure of [Fe(dcpp)₂]²⁺. Inorganic Chemistry, 2019, 58, 9341-9350.	4.0	29
70	Construction of a Highly Efficient and Durable 1D Ternary CdS/ZnS/Pt Nanohybrid Catalyst for Photocatalytic CO₂ Reduction into Chemical Fuels under Solar Light Irradiation. ACS Applied Energy Materials, 2020, 3, 10533-10540.	5.1	29
71	Photodissociation Reaction of 1,2-Diiodoethane in Solution:â€‰ A Theoretical and X-ray Diffraction Study. Journal of Physical Chemistry A, 2005, 109, 10451-10458.	2.5	28
72	Photolysis of Br₂in CCl₄studied by time-resolved X-ray scattering. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 252-260.	0.3	26

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73	Light-Induced Radical Formation and Isomerization of an Aromatic Thiol in Solution Followed by Time-Resolved X-ray Absorption Spectroscopy at the Sulfur K-Edge. Journal of the American Chemical Society, 2017, 139, 4797-4804.	13.7	26
74	Multidirectional-charge-transfer urchin-type Mo-doped W₁₈O₄₉ nanostructures on CdS nanorods for enhanced photocatalytic hydrogen evolution. Catalysis Science and Technology, 2018, 8, 1880-1891.	4.1	26
75	Construction of 1D TiO2 nanotubes integrated ultrathin 2D ZnIn2S4 nanosheets heterostructure for highly efficient and selective photocatalytic CO2 reduction. Applied Surface Science, 2022, 587, 152895.	6.1	26
76	Analyzing solution-phase time-resolved x-ray diffraction data by isolated-solute models. Journal of Chemical Physics, 2006, 125, 174504.	3.0	23
77	Synergetic catalytic behavior of dual metal-organic framework coated hematite photoanode for photoelectrochemical water splitting performance. Journal of Catalysis, 2020, 391, 471-479.	6.2	23
78	Spectroscopic evidence of Î±-methylbenzyl radical in the gas phase. Chemical Physics Letters, 2008, 465, 193-196.	2.6	21
79	Density Functional and Ab Initio Study of Cr(CO)n (n = 1â"6) Complexes. Journal of Physical Chemistry A, 2007, 111, 4697-4710.	2.5	20
80	Indium Phosphide Quantum Dots Integrated with Cadmium Sulfide Nanorods for Photocatalytic Carbon Dioxide Reduction. ChemCatChem, 2020, 12, 4550-4557.	3.7	20
81	In situ addition of Ni salt onto a skeletal Cu₇S₄ integrated CdS nanorod photocatalyst for efficient production of H₂ under solar light irradiation. Catalysis Science and Technology, 2020, 10, 3542-3551.	4.1	20
82	Boosting Water Oxidation Performance of BiVO₄ Photoanode by Vertically Stacked NiO Nanosheets Coupled with Atomically Dispersed Iridium Sites. ACS Applied Energy Materials, 2021, 4, 11353-11366.	5.1	20
83	Highly Durable and Fully Dispersed Cobalt Diatomic Site Catalysts for CO₂ Photoreduction to CH₄. Angewandte Chemie, 2022, 134, .	2.0	20
84	Electronic and Molecular Structure of the Transient Radical Photocatalyst Mn(CO)₅ and Its Parent Compound Mn₂(CO)₁₀. Inorganic Chemistry, 2016, 55, 5895-5903.	4.0	19
85	Global Reaction Pathways in the Photodissociation of I₃^{â"} Ions in Solution at 267 and 400 nm Studied by Picosecond Xâ€ray Liquidography. ChemPhysChem, 2013, 14, 3687-3697.	2.1	18
86	Synthesis and detailed spectroscopic characterization of various hydroxy-functionalized fluorescent chalcones: A combined experimental and theoretical study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 150, 557-564.	3.9	17
87	Skeletal Cu₇S₄ Nanocages Wrapped by Fewâ€Layered Black Phosphorus Nanosheets as an Efficient H₂ Production Photocatalyst. ChemCatChem, 2021, 13, 304-312.	3.7	17
88	Exposure of NiFe-LDH active sites by cationâ€"exchange to promote photoelectrochemical water splitting performance. Applied Surface Science, 2021, 570, 151134.	6.1	17
89	Ultrathin layered Zn-doped MoS2 nanosheets deposited onto CdS nanorods for spectacular photocatalytic hydrogen evolution. Journal of Alloys and Compounds, 2022, 905, 164193.	5.5	17
90	Facile synthesis of cauliflower-like cobalt-doped Ni3Se2 nanostructures as high-performance cathode materials for aqueous zinc-ion batteries. International Journal of Hydrogen Energy, 2020, 45, 7741-7750.	7.1	16

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91	Identifying the major intermediate species by combining time-resolved X-ray solution scattering and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2015, 17, 23298-23302.	2.8	15
92	Anionic precursor-mediated morphology-controlled synthesis of ZnS nanostructures: Morphology-dependent tunable photoluminescence in the visible region and pulsed laser-induced efficient reduction of Cr(VI). Ceramics International, 2016, 42, 12046-12054.	4.8	15
93	Formation of hybrid nanostructures comprising perovskite (Ba5Nb4O15)-MoS2 ultrathin nanosheets on CdS nanorods: Toward enhanced solar-driven H2 production. Journal of Catalysis, 2017, 352, 617-626.	6.2	15
94	Photodissociation dynamics of CF3Br at 225nm: Direct dissociation via pseudo-linear geometry. Chemical Physics Letters, 2007, 446, 31-35.	2.6	13
95	In situ growth of Ag₂S quantum dots on SnS₂ nanosheets with enhanced charge separation efficiency and CO₂ reduction performance. Journal of Materials Chemistry A, 2022, 10, 7291-7299.	10.3	13
96	Density Functional and Spinâ˜'Orbit Ab Initio Study of CF₃Br: Molecular Properties and Electronic Curve Crossing. Journal of Physical Chemistry A, 2011, 115, 1264-1271.	2.5	12
97	Following Metal-to-Ligand Charge-Transfer Dynamics with Ligand and Spin Specificity Using Femtosecond Resonant Inelastic X-ray Scattering at the Nitrogen K-Edge. Journal of Physical Chemistry Letters, 2021, 12, 6676-6683.	4.6	12
98	In situ preparation of polymeric cobalt phthalocyanineâ€"decorated TiO2 nanorods for efficient photocatalytic CO2 reduction. Materials Today Chemistry, 2021, 22, 100589.	3.5	12
99	Augmented photoelectrochemical water reduction: influence of copper vacancies and hole-transport layer on CuBi₂O₄ photocathode. Journal of Materials Chemistry A, 2022, 10, 6623-6635.	10.3	12
100	Inverse Opal CuBi₂O₄ Photocathodes for Robust Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2022, 5, 6050-6058.	5.1	12
101	Observation of vibronic emission spectra of difluorobenzyl radicals: Jet-cooled 2,5-difluorobenzyl radical. Chemical Physics Letters, 2008, 454, 207-211.	2.6	11
102	Performance of Density Functional Theory and Relativistic Effective Core Potential for Ru-Based Organometallic Complexes. Journal of Physical Chemistry A, 2016, 120, 2128-2134.	2.5	11
103	Ultra-small cobalt nanocrystals embedded in 2D-MoS2 nano-sheets as efficient co-catalyst for solar-driven hydrogen production: Study of evolution rate dependence on cobalt nanocrystal size. Applied Surface Science, 2019, 494, 239-248.	6.1	11
104	Boosting charge transfers in cadmium sulfide nanorods with a few layered Ni-doped MoS2 nanosheets for enhanced photocatalytic hydrogen evolution. International Journal of Hydrogen Energy, 2022, 47, 40218-40226.	7.1	11
105	The dynamics of Br(2Pj) formation in the photodissociation of vinyl and perfluorovinyl bromides. Journal of Chemical Physics, 2005, 122, 034308.	3.0	10
106	Probing reaction dynamics of transition-metal complexesin solutionvia time-resolved X-ray spectroscopy. Journal of Physics: Conference Series, 2009, 148, 012043.	0.4	10
107	Hollow CoSe₂ nanocages derived from metalâ€"organic frameworks as efficient non-precious metal co-catalysts for photocatalytic hydrogen production. Catalysis Science and Technology, 2019, 9, 4702-4710.	4.1	10
108	Intracluster Ionâ˜'Molecule Reactions of Ti+with C2H5OH and CF3CH2OH Clusters:Â Influence of Fluorine Substituents on Chemical Reactivity. Journal of Physical Chemistry A, 2006, 110, 13724-13730.	2.5	9

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109	Theoretical Study on the Reaction of Ti⁺with Acetone and the Role of Intersystem Crossing. Journal of Physical Chemistry A, 2009, 113, 11382-11389.	2.5	9
110	Impact of the number of surface-attached tungsten diselenide layers on cadmium sulfide nanorods on the charge transfer and photocatalytic hydrogen evolution rate. Journal of Colloid and Interface Science, 2022, 608, 903-911.	9.4	9
111	Vibronic emission spectra of jet-cooled 2,3-difluorobenzyl radical in a corona excited supersonic expansion. Chemical Physics Letters, 2007, 447, 197-201.	2.6	8
112	Strong Spinâ€“Orbit Coupling Facilitates Câ€“H Activation in the Reactions of Os⁺ with CH₃F: Theoretical Investigations. Journal of Chemical Theory and Computation, 2013, 9, 1087-1092.	5.3	8
113	Development of a Pasteâ€type Certified Reference Material of Tomato for Elemental Analysis: Certification and Longâ€term Stability Study. Bulletin of the Korean Chemical Society, 2017, 38, 211-218.	1.9	8
114	Membrane Inlet-based Portable Time-of-flight Mass Spectrometer for Analysis of Air Samples. Bulletin of the Korean Chemical Society, 2005, 26, 303-308.	1.9	8
115	Effects of Laser Energy Density on Size and Morphology of <scp>NiO</scp> Nanoparticles Prepared by Pulsed Laser Ablation in Liquid. Bulletin of the Korean Chemical Society, 2015, 36, 5-6.	1.9	7
116	Shot noise limited soft x-ray absorption spectroscopy in solution at a SASE-FEL using a transmission grating beam splitter. Structural Dynamics, 2021, 8, 014303.	2.3	7
117	Picosecond Diffraction at the ESRF: How Far Have We Come and Where Are We Going?. AIP Conference Proceedings, 2007, , .	0.4	6
118	Ground and low-lying excited states of PtCN and PdCN: theoretical investigation including spinâ€“orbit coupling. Theoretical Chemistry Accounts, 2016, 135, 1.	1.4	6
119	Photodissociation Dynamics of C2H4BrCl: Nonadiabatic Dynamics with Intrinsic CsSymmetry. Bulletin of the Korean Chemical Society, 2009, 30, 2962-2968.	1.9	6
120	Development of Isotope Dilution LC-MS/MS Method for Accurate Determination of Arsenobetaine in Oyster Certified Reference Material. Bulletin of the Korean Chemical Society, 2014, 35, 821-827.	1.9	6
121	Reassignment of Isomeric Dimethylbenzyl Radicals Generated by Corona Discharge of 1,2,4-Trimethylbenzene. Bulletin of the Korean Chemical Society, 2008, 29, 2341-2345.	1.9	5
122	Dynamics of Br(2Pj) Formation in the Photodissociation of Bromobenzene. Bulletin of the Korean Chemical Society, 2011, 32, 659-663.	1.9	5
123	Diffusion-Limited Extraction of Organic Ions by a Track-Membrane Interfaced Vacuum Inlet. European Journal of Mass Spectrometry, 2003, 9, 187-193.	1.0	4
124	Probe of I(2Pj) atoms using two-photon resonant four-wave mixing spectroscopy following the 266-nm photodissociations of various alkyl and perfluoroalkyl iodides. Journal of Molecular Spectroscopy, 2008, 249, 43-50.	1.2	4
125	Intracluster ionâ€“molecule reactions between V+ and methyl acetate or ethyl acetate clusters. International Journal of Mass Spectrometry, 2012, 315, 15-21.	1.5	4
126	Reactivity of molecular oxygen with aluminum clusters: Density functional and Ab Initio molecular dynamics simulation study. International Journal of Quantum Chemistry, 2016, 116, 547-554.	2.0	4

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127	Noble metal free few-layered perovskite-based Ba2NbFeO6 nanostructures on exfoliated g-C3N4 layers as highly efficient catalysts for enhanced solar fuel production. Applied Surface Science, 2022, 572, 151406.	6.1	4
128	Intramolecular Ion-Molecule Reactions within Ti⁺(CH₃COCH₃)_nHeteroclusters: Oxidation Pathway via C=O Bond Activation. Bulletin of the Korean Chemical Society, 2010, 31, 953-958.	1.9	4
129	Effective dye degradation by an environment-friendly porous few-layered carbon nitride photocatalyst developed using sequential molecule self-assembly. Environmental Research, 2022, 204, 112362.	7.5	4
130	Spatiotemporal Kinetics in Solution Studied by Time-Resolved X-Ray Liquidography (Solution) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	2.1	3
131	Exploring Fine Structures of Photoactive Yellow Protein in Solution Using Wide-Angle X-ray Scattering. Bulletin of the Korean Chemical Society, 2004, 25, 1676-1680.	1.9	3
132	The Role of the Neutral and Cationic Gelators from (1S,2S)-(-)-Diphenylethylenediamine for the Preparation of Silica Nano Tubes. Bulletin of the Korean Chemical Society, 2009, 30, 1641-1643.	1.9	3
133	Ligand-Field Effects in a Ruthenium(II) Polypyridyl Complex Probed by Femtosecond X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 12165-12172.	4.6	3
134	Long-Term Exposure of MoS2 to Oxygen and Water Promoted Armchair-to-Zigzag-Directional Line Unzippings. Nanomaterials, 2022, 12, 1706.	4.1	3
135	Spatiotemporal Kinetics in Solution Studied by Time-Resolved X-Ray Liquidography (Solution) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	2.1	2
136	Substitution Effect on Electronic Transition of Bi-substituted Benzyl-type Radicals: Symmetric Substitution. Bulletin of the Korean Chemical Society, 2007, 28, 1993-1995.	1.9	2
137	Competitive Ion-Molecule Reactions within V+(CH3COOCH3)nClusters. Bulletin of the Korean Chemical Society, 2010, 31, 271-272.	1.9	2
138	Photodissociation of C₃H₅Br and C₄H₇Br at 234 nm. Bulletin of the Korean Chemical Society, 2012, 33, 143-148.	1.9	2
139	Ultrafast X-ray Diffraction of Photodissociation of Iodoform in Solution. AIP Conference Proceedings, 2007, , .	0.4	1
140	Effect of organic gelator template and preparation method on the structure and morphology of nanosized polymorphic titanium oxide using the solâ€“gel process. Research on Chemical Intermediates, 2012, 38, 685-692.	2.7	1
141	Monitoring Excited State Charge Transfer of Transition Metal Mixed-Valence Complexes with Femtosecond X-ray Absorption and Emission Spectroscopy. , 2016, , .		1
142	Self-Assembled Silica Nanostructures: Simultaneous Discrimination of Handedness, Pitch and Diameter of Helical Silica Nanotubes. Journal of Nanoscience and Nanotechnology, 2016, 16, 1988-1992.	0.9	1
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