

Kenta Adachi

List of Publications by Year in descending order

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papers

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471371

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docs citations

40
times ranked

975
citing authors

#	ARTICLE	IF	CITATIONS
1	Kinetic insights into metaphosphoric acid-catalyzed water-crosslinking reactions in silane-grafted polyolefin system. Phosphorus, Sulfur and Silicon and the Related Elements, 2022, 197, 848-856.	0.8	1
2	Versatile Functionality of Four-Terminal TiO ₂ Memristive Devices as Artificial Synapses for Neuromorphic Computing. ACS Applied Electronic Materials, 2022, 4, 2326-2336.	2.0	4
3	A novel efficient catalyst for water-crosslinking reaction of silane-grafted polyolefin system: Specific influence of axially coordinated n-alkylamine ligand on catalytic abilities of metal acetylacetonate complex. Materials Today Communications, 2019, 21, 100584.	0.9	1
4	Stimuli-triggered reversible switching mechanism between H- and J-type supramolecular assemblies of cationic porphyrins adsorbed on tungsten(VI) oxide surface. Journal of Porphyrins and Phthalocyanines, 2018, 22, 658-669.	0.4	8
5	Morphological Analysis of Self-assembled Structures of Merbromin Molecules Adsorbed on Titanium(IV) Oxide Nanoparticles. Bunseki Kagaku, 2018, 67, 719-726.	0.1	0
6	Label-free Colorimetric Sensing of α -Amino Acids Based on Surface-enhanced Photochromic Phenomena of Molybdenum(VI) Oxide Nanoparticles. Bunseki Kagaku, 2017, 66, 639-646.	0.1	2
7	Kinetics of Coloration in Photochromic Tungsten(VI) Oxide/Silicon Oxycarbide/Silica Hybrid Xerogel: Insight into Cation Self-diffusion Mechanisms. ACS Applied Materials & Interfaces, 2016, 8, 14019-14028.	4.0	25
8	Factors affecting oxygen evolution through water oxidation on polycrystalline titanium dioxide. RSC Advances, 2016, 6, 46994-47000.	1.7	17
9	Dioxomolybdenum(VI) and dioxotungsten(VI) complexes: efficient catalytic activity for crosslinking reaction in ethylene-vinyl acetate copolymer/alkoxysilane composites. Polymers for Advanced Technologies, 2015, 26, 597-605.	1.6	7
10	Preparation of porous metal-ion-doped titanium dioxide and the photocatalytic degradation of 4-chlorophenol under visible light irradiation. Applied Catalysis B: Environmental, 2015, 176-177, 347-353.	10.8	30
11	Photochromic Properties of Tungsten Oxide/Methylcellulose Composite Film Containing Dispersing Agents. ACS Applied Materials & Interfaces, 2015, 7, 26326-26332.	4.0	56
12	pH-Responsive Switchable Aggregation Phenomena of Xanthene Dyes Adsorbed on Tungsten(VI) Oxide Colloid Surface. Industrial & Engineering Chemistry Research, 2014, 53, 13046-13057.	1.8	28
13	Surface-enhanced photochromic phenomena of phenylalanine adsorbed on tungsten oxide nanoparticles: a novel approach for label-free colorimetric sensing. Analyst, The, 2013, 138, 2536.	1.7	27
14	Photocatalytic activity of aqueous WO ₃ sol for the degradation of Orange II and 4-chlorophenol. Applied Catalysis A: General, 2013, 454, 30-36.	2.2	30
15	Mechanism of Peripheral Substituent Effects on Adsorption-Aggregation Behaviors of Cationic Porphyrin Dyes on Tungsten(VI) Oxide Nanocolloid Particles. ACS Applied Materials & Interfaces, 2013, 5, 12991-12999.	4.0	12
16	Kinetic characteristics of enhanced photochromism in tungsten oxide nanocolloid adsorbed on cellulose substrates, studied by total internal reflection Raman spectroscopy. RSC Advances, 2012, 2, 2128.	1.7	18
17	Kinetics of photocatalytic degradation of trichloroethylene in aqueous colloidal solutions of TiO ₂ and WO ₃ nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 249, 15-20.	2.0	24
18	Chirality induction and amplification in methylene blue H-aggregates via D- and L-phenylalanine pre-adsorbed on the tungsten oxide nanocolloid surface. New Journal of Chemistry, 2012, 36, 2167.	1.4	11

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19	Synthesis of porous platinum-ion-doped titanium dioxide and the photocatalytic degradation of 4-chlorophenol under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2012, 121-122, 148-153.	10.8	32
20	Kinetic study on photochromism of WO ₃ aqueous sol and its enhancement accompanying spectral changes by the addition of TiO ₂ aqueous sol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 392, 163-170.	2.3	10
21	<i>In situ</i> binary sol-gel reaction of various trifunctional alkoxy silane in the silane-grafted polyolefin matrix and its effect upon the mechanical properties. <i>Polymer Engineering and Science</i> , 2011, 51, 632-640.	1.5	3
22	Preparation and photocatalytic activity of Cu-deposited TiO ₂ film with high transparency. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 209, 74-78.	2.0	4
23	Ethylene-propylene copolymer/ordered polysilsesquioxane nanocomposites prepared via organic acid- or base-catalyzed binary silica water-crosslinking reactions. <i>Polymer International</i> , 2010, 59, 510-516.	1.6	7
24	Photocatalytic Degradation of Chlorinated Ethanes in the Gas Phase on the Porous TiO ₂ Pellets: Effect of Surface Acidity. <i>Journal of Physical Chemistry A</i> , 2010, 114, 5092-5098.	1.1	22
25	Controllable Adsorption and Ideal H-Aggregation Behaviors of Phenothiazine Dyes on the Tungsten Oxide Nanocolloid Surface. <i>Langmuir</i> , 2010, 26, 117-125.	1.6	34
26	The utility of sulfonic acid catalysts for silane water-crosslinked network formation in the ethylene-propylene copolymer system. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 49, 186-195.	1.1	11
27	Measuring the optical chirality of molecular aggregates at liquid-liquid interfaces. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 395, 1033-1046.	1.9	9
28	Good linear relationship between logarithms of Eigen's water exchange constants for several divalent metal ions and activation energies of corresponding metal-catalyzed alkoxy silane hydrolysis in ethylene-propylene copolymer system. <i>European Polymer Journal</i> , 2008, 44, 542-549.	2.6	13
29	Controllable Silane Water-Cross-Linking Kinetics and Curability of Ethylene-Propylene Copolymer by Amine Compounds. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 1812-1819.	1.8	14
30	Linear Dichroism of Zn(II)-Tetrapyrrolylporphyrin Aggregates Formed at the Toluene/Water Interface. <i>Langmuir</i> , 2008, 24, 4722-4728.	1.6	11
31	Accelerated Silane Water-Crosslinking Kinetics of Ethylene-Propylene Copolymer by Boron Trifluoride Complexes. <i>Macromolecular Reaction Engineering</i> , 2007, 1, 313-320.	0.9	14
32	Two-phase Couette flow linear dichroism measurement of the shear-forced orientation of a palladium(ii)-induced aggregate of thioether-derivatized subphthalocyanines at the toluene/glycerol interface. <i>New Journal of Chemistry</i> , 2006, 30, 343.	1.4	16
33	Formation of Helical Aggregate of Chiral Thioether-Derivatized Phthalocyanine Bound by Palladium(II) at the Toluene/Water Interface. <i>Langmuir</i> , 2006, 22, 1630-1639.	1.6	66
34	Binding Behavior of Subphthalocyanine-Tagged Testosterone with Human Serum Albumin at the Hexane/Water Interface. <i>Analytical Chemistry</i> , 2006, 78, 6840-6846.	3.2	26
35	Control of optically active structure of thioether-phthalocyanine aggregates by chiral Pd(II)-BINAP complexes in toluene and at the toluene/water interface. <i>Chirality</i> , 2006, 18, 599-608.	1.3	31
36	Site-Selective Formation of Optically Active Inclusion Complexes of Alkoxy-Subphthalocyanines with β -Cyclodextrin at the Toluene/Water Interface. <i>Chemistry - A European Journal</i> , 2006, 12, 4249-4260.	1.7	15

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37	Aggregation of thioether-substituted subphthalocyanines with palladium(ii) at the toluene/water interface. <i>Soft Matter</i> , 2005, 1, 292.	1.2	20
38	Interfacial aggregation of thioether-substituted phthalocyaninatomagnesium(ii)-palladium(ii) complexes in the toluene/water system. <i>Journal of Materials Chemistry</i> , 2005, 15, 4701.	6.7	29
39	Adsorption Equilibria of Novel Phthalocyaninatomagnesium(II) Derivatives with Thioethers at the Toluene/Water Interface. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 2011-2020.	2.0	16
40	Enhancing catalytic activity of copper(II) complexes by curcuminoid as electron-withdrawing ligand for silane water-crosslinking reaction: a joint experimental and theoretical study. <i>Journal of Sol-Gel Science and Technology</i> , 0, , 1.	1.1	0