

Kenji Kawaguchi

List of Publications by Year in descending order

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73
papers

2,116
citations

257450

24
h-index

233421

45
g-index

75
all docs

75
docs citations

75
times ranked

2807
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of carbon quantum dots with tunable photoluminescence by rapid laser passivation in ordinary organic solvents. <i>Chemical Communications</i> , 2011, 47, 932-934.	4.1	482
2	Selective Pulsed Heating for the Synthesis of Semiconductor and Metal Submicrometer Spheres. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 6361-6364.	13.8	166
3	Size-Tailored ZnO Submicrometer Spheres: Bottom-Up Construction, Size-Related Optical Extinction, and Selective Aniline Trapping. <i>Advanced Materials</i> , 2011, 23, 1865-1870.	21.0	119
4	Catalyst-free fabrication of single crystalline boron nanobelts by laser ablation. <i>Chemical Physics Letters</i> , 2003, 368, 663-667.	2.6	105
5	Comparison of pulmonary inflammatory responses following intratracheal instillation and inhalation of nanoparticles. <i>Nanotoxicology</i> , 2016, 10, 607-618.	3.0	73
6	A stable carbon-based organic magnet. <i>Journal of the Chemical Society Chemical Communications</i> , 1992, , 567.	2.0	70
7	Controlling exchange bias in Fe ₃ O ₄ /FeO composite particles prepared by pulsed laser irradiation. <i>Nanoscale Research Letters</i> , 2011, 6, 226.	5.7	59
8	Evaluation of Pulmonary Toxicity of Zinc Oxide Nanoparticles Following Inhalation and Intratracheal Instillation. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1241.	4.1	57
9	Pulsed laser irradiation of colloidal nanoparticles: a new synthesis route for the production of non-equilibrium bimetallic alloy submicrometer spheres. <i>RSC Advances</i> , 2013, 3, 79-83.	3.6	56
10	General Bottom-Up Construction of Spherical Particles by Pulsed Laser Irradiation of Colloidal Nanoparticles: A Case Study on CuO. <i>Chemistry - A European Journal</i> , 2012, 18, 163-169.	3.3	54
11	Pulmonary toxicity of well-dispersed cerium oxide nanoparticles following intratracheal instillation and inhalation. <i>Journal of Nanoparticle Research</i> , 2015, 17, 442.	1.9	54
12	Preparation of Fe-Pt alloy particles by pulsed laser ablation in liquid medium. <i>Chemical Physics Letters</i> , 2006, 428, 426-429.	2.6	42
13	Preparation of LiTi ₂ O ₄ single crystals with the spinel structure. <i>Journal of Solid State Chemistry</i> , 1992, 96, 446-450.	2.9	37
14	Preparation of gold/iron-oxide composite nanoparticles by a unique laser process in water. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2369-2371.	2.3	36
15	Magnetic properties of amorphous-like carbons prepared from tetraaza compounds by the chemical vapour deposition (CVD) method. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1265.	2.0	35
16	Temperature dependence of electrical conductance in single-crystalline boron nanobelts. <i>Applied Physics Letters</i> , 2005, 86, 212101.	3.3	35
17	Kinetics and dissolution of intratracheally administered nickel oxide nanomaterials in rats. <i>Particle and Fibre Toxicology</i> , 2017, 14, 48.	6.2	33
18	Biopersistence of NiO and TiO ₂ Nanoparticles Following Intratracheal Instillation and Inhalation. <i>International Journal of Molecular Sciences</i> , 2017, 18, 2757.	4.1	31

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19	Synthesis and Crystal Structure of Ramsdellite-Type $\text{Li}_0.5\text{TiO}_2$. <i>Journal of Solid State Chemistry</i> , 1994, 110, 150-155.	2.9	30
20	Photomediated assembly of single crystalline silver spherical particles with enhanced electrochemical performance. <i>Journal of Materials Chemistry A</i> , 2013, 1, 692-698.	10.3	29
21	Generation of room-temperature atmospheric H_2/Ar microplasma jet driven with pulse-modulated ultrahigh frequency and its application to gold nanoparticle preparation. <i>Applied Physics Letters</i> , 2009, 94, 191504.	3.3	28
22	Preparation of antiferromagnetic Co_3O_4 nanoparticles from two different precursors by pyrolytic method: in vitro antimicrobial activity. <i>RSC Advances</i> , 2014, 4, 15022-15029.	3.6	27
23	Liquid-phase laser process for simple and area-specific calcium phosphate coating. <i>Journal of Biomedical Materials Research - Part A</i> , 2012, 100A, 2573-2580.	4.0	24
24	Various Morphologies/Phases of Gold-Based Nanocomposite Particles Produced by Pulsed Laser Irradiation in Liquid Media: Insight in Physical Processes Involved in Particles Formation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8177-8187.	3.1	24
25	Synthesis of Au-Based Porous Magnetic Spheres by Selective Laser Heating in Liquid. <i>Langmuir</i> , 2012, 28, 4903-4907.	3.5	22
26	Comparison between whole-body inhalation and nose-only inhalation on the deposition and health effects of nanoparticles. <i>Environmental Health and Preventive Medicine</i> , 2016, 21, 42-48.	3.4	22
27	Synthesis, Crystal Structure, and Magnetic Property of Delithiated Li_xMnO_2 ($x < 0.1$) Single Crystals: A Novel Disordered Rocksalt-Type Manganese Dioxide. <i>Chemistry of Materials</i> , 2003, 15, 2984-2990.	6.7	21
28	Dependence of photocurrent in single-crystalline boron nanobelts on atmosphere. <i>Applied Physics Letters</i> , 2006, 89, 243121.	3.3	21
29	Laser-assisted biomimetic process for surface functionalization of titanium metal. <i>Colloids and Interface Science Communications</i> , 2015, 4, 5-9.	4.1	20
30	Pulmonary clearance kinetics and extrapulmonary translocation of seven titanium dioxide nano- and submicron materials following intratracheal administration in rats. <i>Nanotoxicology</i> , 2015, 9, 1050-1058.	3.0	18
31	Synthesis and Crystal Structure of $\text{Ba}_2\text{Ti}_{13}\text{O}_{22}$: A Reduced Form of $\text{BaTi}_5\text{O}_{11}$ by the Titanium Insertion. <i>Journal of Solid State Chemistry</i> , 1994, 113, 384-392.	2.9	16
32	Effects of Oxide Composition on Structure, Surface Morphology, and Oxygen Evolution Behaviors of $\text{IrO}_2\text{-Ta}_2\text{O}_5/\text{Ti}$ Anodes Prepared at a High Temperature. <i>Electrochemistry</i> , 2015, 83, 256-261.	1.4	16
33	Mg-doping experiment and electrical transport measurement of boron nanobelts. <i>Journal of Solid State Chemistry</i> , 2006, 179, 2799-2804.	2.9	15
34	Laser-assisted one-pot fabrication of calcium phosphate-based submicrospheres with internally crystallized magnetite nanoparticles through chemical precipitation. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8836-8842.	2.8	15
35	Categorization of nano-structured titanium dioxide according to physicochemical characteristics and pulmonary toxicity. <i>Toxicology Reports</i> , 2016, 3, 490-500.	3.3	15
36	Laser-assisted calcium phosphate deposition on polymer substrates in supersaturated solutions. <i>RSC Advances</i> , 2014, 4, 53645-53648.	3.6	14

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37	Single Crystal Growth and Structural Chemistry of $\text{Li}_{1-z}\text{Ni}_1+z\text{O}_2$ with $z=0.075$. Journal of Solid State Chemistry, 2001, 160, 178-183.	2.9	13
38	Fabrication of crystallized boron films by laser ablation. Journal of Solid State Chemistry, 2004, 177, 1639-1645.	2.9	13
39	Control of Amorphization of $\text{IrO}_2\text{-Ta}_2\text{O}_5/\text{Ti}$ Electrodes to Suppress Unwanted Side Reactions. ECS Transactions, 2009, 16, 41-47.	0.5	12
40	Electrical transport of tetragonal boron nanobelts. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 2510.	1.6	11
41	Ordered Nano Particles in Amorphous $\text{IrO}_2\text{-Ta}_2\text{O}_5$ Coatings Detected by SEM with Low Accelerated Incident Electrons. Electrochemistry, 2009, 77, 879-881.	1.4	9
42	A physicochemical process for fabricating submicrometre calcium iron phosphate spheres. RSC Advances, 2014, 4, 38442.	3.6	9
43	Single-crystal synthesis, structure analysis, and physical properties of the calcium ferrite-type $\text{Na}_x\text{Ti}_2\text{O}_4$ with $0.558 < x < 1$. Journal of Solid State Chemistry, 2007, 180, 1020-1027.	2.9	8
44	Electron energy-loss and soft X-ray emission study of boron nanobelts. Journal of Physics: Conference Series, 2009, 176, 012029.	0.4	8
45	Synthesis of various 3D porous gold-based alloy nanostructures with branched shapes. Journal of Colloid and Interface Science, 2016, 483, 281-286.	9.4	7
46	Effects of dose volume and delivery device on bronchoalveolar lavage parameters of intratracheally administered nano-sized TiO_2 in rats. Regulatory Toxicology and Pharmacology, 2016, 81, 233-241.	2.7	7
47	Catalytic Activity of Nanosized Ruthenium Oxide-Coated Titanium Anodes Prepared by Thermal Decomposition for Oxygen Evolution in Sulfuric Acid Solutions. Electrocatalysis, 2020, 11, 505-512.	3.0	7
48	Synthesis and odour evaluation of double bond isomers of DAMASCENOLIDE, 4-(4-methylpent-3-en-1-yl)-2(5H)-1H-tetrazol-5-one	2.6	7
49	Ultra-high vacuum deposition of TiO_2 -Ni multilayers. Applied Surface Science, 1988, 33-34, 640-645.	6.1	6
50	Effect of substrate position on the morphology of boron products by laser ablation. Applied Physics A: Materials Science and Processing, 2004, 79, 891-893.	2.3	6
51	Effects of Composition and Structure of $\text{IrO}_2\text{-Ta}_2\text{O}_5/\text{Ti}$ Anodes on Suppression of PbO_2 Deposition. Journal of MMIJ, 2015, 131, 129-134.	0.3	5
52	Comparison of the local pulmonary distribution of nanoparticles administered intratracheally to rats via gavage needle or microsyringe delivery devices. Journal of Applied Toxicology, 2017, 37, 502-507.	2.8	5
53	Preparation of Gold/Iron Oxide Composite Nanoparticles by a Laser-Soldering Method. IEEE Transactions on Magnetics, 2006, 42, 3620-3622.	2.1	4
54	Strain Effect on the Electrical and Magnetic Properties of $\text{La}_{0.7}\text{Ba}_{0.3}\text{MnO}_3$ Thin Films Grown by Metal-Organic Deposition. Journal of Superconductivity and Novel Magnetism, 2010, 23, 1355-1358.	1.8	4

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55	Laser-Assisted Biomimetic Process for Calcium Phosphate Coating on a Hydroxyapatite Ceramic. Key Engineering Materials, 0, 529-530, 217-222.	0.4	4
56	Reaction Selectivity of IrO ₂ -Based Nano/Amorphous Hybrid Oxide-Coated Titanium Anodes in Acidic Aqueous Solutions: Oxygen Evolution and Lead Oxide Deposition. Journal of the Electrochemical Society, 2020, 167, 133503.	2.9	4
57	Preparation, characterization and property of (BiS) _x TS ₂ -type ternary chalcogenides (T=V, Nb and Ta) with layered composite crystal structure. Solid State Ionics, 2004, 172, 519-522.	2.7	3
58	Nano-Architecture on the Mud-Cracked Surface of IrO ₂ -Ta ₂ O ₅ Binary System. ECS Transactions, 2009, 25, 67-73.	0.5	3
59	FePt Nanoparticles Fabricated by Pulsed Laser Ablation. Journal of Nanoscience and Nanotechnology, 2009, 9, 1454-1457.	0.9	3
60	Charge-discharge Performance and Energy Density of MH/Air Secondary Battery using A ₂ B ₇ Type Hydrogen Storage Alloys. Electrochemistry, 2015, 83, 855-857.	1.4	2
61	Formation Mechanism of Non-conductive PbSO ₄ on IrO ₂ -Ta ₂ O ₅ /Ti Anodes in Copper Foil Production. Hyomen Cijutsu/Journal of the Surface Finishing Society of Japan, 2015, 66, 282-284.	0.2	2
62	Analog synthesis of DAMASCENOLIDETM, an important aroma component of roses, and their odor properties. Bioscience, Biotechnology and Biochemistry, 2020, 84, 1560-1569.	1.3	2
63	Time-course comparison of pulmonary inflammation induced by intratracheal instillation of four different nickel oxide nanoparticles in male Fischer rats. Journal of Toxicologic Pathology, 2021, 34, 43-55.	0.7	2
64	Suppression of PbO ₂ Deposition on Nano-Structured IrO ₂ -Ta ₂ O ₅ /Ti Anodes in Acidic Solutions. ECS Transactions, 2013, 50, 75-85.	0.5	1
65	Distinction of Conductive PbO ₂ and Non-conductive PbSO ₄ in Deposited Mixtures on IrO ₂ -Ta ₂ O ₅ /Ti Anodes Using SEM with Low Accelerated Incident Electrons. Hyomen Cijutsu/Journal of the Surface Finishing Society of Japan, 2015, 66, 673-674.	0.2	1
66	Magnetic Properties of Pyro-Carbons Prepared from Poly(vinyl chloride) and Activated Carbon. Bulletin of the Chemical Society of Japan, 1992, 65, 1144-1145.	3.2	0
67	PREPARATION AND PROPERTIES OF AlPdRe ICOSAHEDRAL QUASICRYSTALLINE THIN FILMS BY MOLECULAR BEAM EPITAXY. International Journal of Nanoscience, 2002, 01, 527-531.	0.7	0
68	Synthesis, Crystal Structure, and Magnetic Property of Delithiated Li _x MnO ₂ (x < 0.1) Single Crystals: A Novel Disordered Rocksalt-Type Manganese Dioxide.. ChemInform, 2003, 34, no.	0.0	0
69	PREPARATION AND PROPERTIES OF AlPdRe ICOSAHEDRAL QUASICRYSTALLINE THIN FILMS BY MOLECULAR BEAM EPITAXY. , 2003, , .		0
70	Laser-Assisted Growth of Superconducting MgB ₂ Films in an In Situ Annealing Process Using a Stoichiometric Target. Journal of the American Ceramic Society, 2005, 88, 2385-2390.	3.8	0
71	Studies on analogs of DAMASCENOLIDETM: Part 4. Synthesis and odor evaluation of sulfur-containing analogs of DAMASCENOLIDETM. Bioscience, Biotechnology and Biochemistry, 2021, 85, 1357-1363.	1.3	0
72	Sample Preparation and the Characterization for Intratracheal Administration. Current Topics in Environmental Health and Preventive Medicine, 2019, , 123-144.	0.1	0

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73	Studies on analogs of DAMASCENOLIDETM: Part 3. Synthesis and odor evaluation of dimethylated, cyclopropanated, and other analogs of DAMASCENOLIDETM. Bioscience, Biotechnology and Biochemistry, 2021, 85, 756-764.	1.3	0