

Yoshitake Masuda

List of Publications by Year in descending order

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277
papers

8,349
citations

30070

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Corrosion Resistance and Durability of Superhydrophobic Surface Formed on Magnesium Alloy Coated with Nanostructured Cerium Oxide Film and Fluoroalkylsilane Molecules in Corrosive NaCl Aqueous Solution. <i>Langmuir</i> , 2011, 27, 4780-4788.	3.5	306
2	Formation and Photocatalytic Application of ZnO Nanotubes Using Aqueous Solution. <i>Langmuir</i> , 2010, 26, 2811-2815.	3.5	259
3	Room temperature deposition of a TiO ₂ thin film from aqueous peroxotitanate solution. <i>Journal of Materials Chemistry</i> , 2003, 13, 608-613.	6.7	256
4	The effect of surface charge on hydroxyapatite nucleation. <i>Biomaterials</i> , 2004, 25, 3915-3921.	11.4	161
5	Light-Excited Superhydrophilicity of Amorphous TiO ₂ Thin Films Deposited in an Aqueous Peroxotitanate Solution. <i>Langmuir</i> , 2004, 20, 3188-3194.	3.5	157
6	Electrodeposition of WO ₃ nanostructured thin films for electrochromic and H ₂ S gas sensor applications. <i>Journal of Alloys and Compounds</i> , 2017, 719, 71-81.	5.5	145
7	Thermoelectric performance of Bi- and Na-substituted Ca ₃ Co ₄ O ₉ improved through ceramic texturing. <i>Journal of Materials Chemistry</i> , 2003, 13, 1094-1099.	6.7	144
8	Acid-Base Properties and Zeta Potentials of Self-Assembled Monolayers Obtained via in Situ Transformations. <i>Langmuir</i> , 2004, 20, 8693-8698.	3.5	130
9	Site-Selective Deposition and Morphology Control of UV- and Visible-Light-Emitting ZnO Crystals. <i>Crystal Growth and Design</i> , 2006, 6, 75-78.	3.0	120
10	Deposition Mechanism of Anatase TiO ₂ on Self-Assembled Monolayers from an Aqueous Solution. <i>Chemistry of Materials</i> , 2003, 15, 2469-2476.	6.7	119
11	Surface Precipitation of Highly Porous Hydroxalcalite-like Film on Al from a Zinc Aqueous Solution. <i>Langmuir</i> , 2006, 22, 3521-3527.	3.5	114
12	TiO ₂ nanoparticles prepared using an aqueous peroxotitanate solution. <i>Ceramics International</i> , 2004, 30, 1365-1368.	4.8	111
13	Low-Dimensional Arrangement of SiO ₂ Particles. <i>Langmuir</i> , 2002, 18, 4155-4159.	3.5	110
14	Room-Temperature Preparation of ZrO ₂ Precursor Thin Film in an Aqueous Peroxozirconium-Complex Solution. <i>Chemistry of Materials</i> , 2004, 16, 2615-2622.	6.7	110
15	Templated Site-Selective Deposition of Titanium Dioxide on Self-Assembled Monolayers. <i>Chemistry of Materials</i> , 2002, 14, 1236-1241.	6.7	105
16	Recent advances in SnO ₂ nanostructure based gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 364, 131876.	7.8	103
17	Selective deposition and micropatterning of titanium dioxide thin film on self-assembled monolayers. <i>Thin Solid Films</i> , 2001, 382, 153-157.	1.8	102
18	SnO ₂ Nanosheets for Selective Alkene Gas Sensing. <i>ACS Applied Nano Materials</i> , 2019, 2, 1820-1827.	5.0	92

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19	Self-Assembly Patterning of Silica Colloidal Crystals. Langmuir, 2005, 21, 4478-4481.	3.5	90
20	Pyrolysis study of poly(vinyl chloride)–metal oxide mixtures: Quantitative product analysis and the chlorine fixing ability of metal oxides. Journal of Analytical and Applied Pyrolysis, 2006, 77, 159-168.	5.5	88
21	Corrosion Resistant Performances of Alkanoic and Phosphonic Acids Derived Self-Assembled Monolayers on Magnesium Alloy AZ31 by Vapor-Phase Method. Langmuir, 2011, 27, 6009-6017.	3.5	88
22	Electrochemical deposition of ZnO film and its photoluminescence properties. Journal of Crystal Growth, 2006, 286, 445-450.	1.5	85
23	Improvement of sensing properties for SnO ₂ gas sensor by tuning of exposed crystal face. Sensors and Actuators B: Chemical, 2019, 296, 126655.	7.8	84
24	Site-Selective Deposition of Anatase TiO ₂ in an Aqueous Solution Using a Seed Layer. Langmuir, 2003, 19, 4415-4419.	3.5	81
25	Controlled growth of single-crystalline, nanostructured dendrites and snowflakes of Fe ₂ O ₃ : influence of the surfactant on the morphology and investigation of morphology dependent magnetic properties. CrystEngComm, 2010, 12, 373-382.	2.6	81
26	Site-Selective Deposition and Micropatterning of SrTiO ₃ Thin Film on Self-Assembled Monolayers by the Liquid Phase Deposition Method. Chemistry of Materials, 2002, 14, 5006-5014.	6.7	80
27	Structure and Thermoelectric Transport Properties of Isoelectronically Substituted (ZnO) ₅ In ₂ O ₃ . Journal of Solid State Chemistry, 2000, 150, 221-227.	2.9	79
28	Catalyst-free Highly Sensitive SnO ₂ Nanosheet Gas Sensors for Parts per Billion-Level Detection of Acetone. ACS Applied Materials & Interfaces, 2020, 12, 51637-51644.	8.0	79
29	Micropatterning of Copper on a Poly(ethylene terephthalate) Substrate Modified with a Self-Assembled Monolayer. Langmuir, 2006, 22, 332-337.	3.5	77
30	Growth of Highly <i>c</i> -Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. Journal of Physical Chemistry C, 2009, 113, 14715-14720.	3.1	77
31	Self-Assembly and Micropatterning of Spherical-Particle Assemblies. Advanced Materials, 2005, 17, 841-845.	21.0	74
32	A simple route for growing thin films of uniform ZnO nanorod arrays on functionalized Si surfaces. Thin Solid Films, 2006, 503, 110-114.	1.8	70
33	Site-Selective Deposition of Magnetite Particulate Thin Films on Patterned Self-assembled Monolayers. Chemistry of Materials, 2004, 16, 3484-3488.	6.7	69
34	Control over Film Thickness of SnO ₂ Ultrathin Film Selectively Deposited on a Patterned Self-Assembled Monolayer. Langmuir, 2002, 18, 10379-10385.	3.5	68
35	Micropatterning of anatase TiO ₂ thin films from an aqueous solution by a site-selective immersion method. Journal of Materials Chemistry, 2002, 12, 2643-2647.	6.7	68
36	Two-Dimensional Self-Assembly of Spherical Particles Using a Liquid Mold and Its Drying Process. Langmuir, 2003, 19, 5179-5183.	3.5	68

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37	Highly mesoporous γ -Fe ₂ O ₃ nanostructures: preparation, characterization and improved photocatalytic performance towards Rhodamine B (RhB). <i>Journal Physics D: Applied Physics</i> , 2010, 43, 015501.	2.8	67
38	Reliable Monolayer-Template Patterning of SnO ₂ Thin Films from Aqueous Solution and Their Hydrogen-Sensing Properties. <i>Advanced Functional Materials</i> , 2004, 14, 580-588.	14.9	66
39	Size-Dependent Color Tuning of Efficiently Luminescent Germanium Nanoparticles. <i>Langmuir</i> , 2013, 29, 7401-7410.	3.5	66
40	Investigation of Apatite Deposition onto Charged Surfaces in Aqueous Solutions Using a Quartz Crystal Microbalance. <i>Journal of the American Ceramic Society</i> , 2003, 86, 782-790.	3.8	65
41	Micropatterning of TiO ₂ Thin Film in an Aqueous Peroxotitanate Solution. <i>Chemistry of Materials</i> , 2004, 16, 1062-1067.	6.7	64
42	Enhanced photocatalytic activity of cobalt-doped CeO ₂ nanorods. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 515-523.	2.4	63
43	Hybrid White Light Emitting Diode Based on Silicon Nanocrystals. <i>Advanced Functional Materials</i> , 2014, 24, 7151-7160.	14.9	63
44	Self-Assembly Patterning of Colloidal Crystals Constructed from Opal Structure or NaCl Structure. <i>Langmuir</i> , 2004, 20, 5588-5592.	3.5	61
45	High <i>c</i> -Axis Oriented Stand-Alone ZnO Self-Assembled Film. <i>Crystal Growth and Design</i> , 2008, 8, 275-279.	3.0	61
46	Synthesis and phase transformation of TiO ₂ nano-crystals in aqueous solutions. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 373-376.	1.1	61
47	Liquid-Phase Patterning and Microstructure of Anatase TiO ₂ Films on SnO ₂ :F Substrates Using Superhydrophilic Surface. <i>Chemistry of Materials</i> , 2008, 20, 1057-1063.	6.7	58
48	Composite film formed on magnesium alloy AZ31 by chemical conversion from molybdate/phosphate/fluorinate aqueous solution toward corrosion protection. <i>Surface and Coatings Technology</i> , 2013, 217, 76-83.	4.8	58
49	Seedless micropatterning of copper by electroless deposition on self-assembled monolayers. <i>Journal of Materials Chemistry</i> , 2004, 14, 976.	6.7	57
50	Site-Selective Deposition and Micropatterning of Visible-Light-Emitting Europium-Doped Yttrium Oxide Thin Film on Self-Assembled Monolayers. <i>Chemistry of Materials</i> , 2007, 19, 1002-1008.	6.7	57
51	Selective Deposition and Micropatterning of Titanium Dioxide on Self-Assembled Monolayers from a Gas Phase. <i>Langmuir</i> , 2001, 17, 4876-4880.	3.5	56
52	Multineedle TiO ₂ Nanostructures, Self-Assembled Surface Coatings, and Their Novel Properties. <i>Crystal Growth and Design</i> , 2010, 10, 913-922.	3.0	56
53	Influence of ionic size of rare-earth site on the thermoelectric properties of RCoO ₃ -type perovskite cobalt oxides. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001, 85, 70-75.	3.5	55
54	Thermoelectric Performance of Yttrium-substituted (ZnO) ₅ In ₂ O ₃ Improved through Ceramic Texturing. <i>Japanese Journal of Applied Physics</i> , 2002, 41, 731-732.	1.5	55

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55	Site-Selective Adhesion of Hydroxyapatite Microparticles on Charged Surfaces in a Supersaturated Solution. <i>Journal of Colloid and Interface Science</i> , 2001, 243, 31-36.	9.4	54
56	Synthesis of hierarchical WO ₃ nanostructured thin films with enhanced electrochromic performance for switchable smart windows. <i>RSC Advances</i> , 2015, 5, 96416-96427.	3.6	54
57	Nano/micro-patterning of anatase TiO ₂ thin film from an aqueous solution by site-selective elimination method. <i>Science and Technology of Advanced Materials</i> , 2003, 4, 461-467.	6.1	52
58	Fabrication of Self-Assembled Monolayers (SAMs) and Inorganic Micropattern on Flexible Polymer Substrate. <i>Langmuir</i> , 2004, 20, 3278-3283.	3.5	52
59	Effect of Crystal Defect on Gas Sensing Properties of Co ₃ O ₄ Nanoparticles. <i>ACS Sensors</i> , 2020, 5, 1665-1673.	7.8	52
60	Microstructure-Controlled Deposition of SrTiO ₃ Thin Film on Self-Assembled Monolayers in an Aqueous Solution of (NH ₄) ₂ TiF ₆ ·Sr(NO ₃) ₂ ·H ₃ BO ₃ . <i>Chemistry of Materials</i> , 2003, 15, 2399-2410.	6.7	50
61	Tin Oxide Nanosheet Assembly for Hydrophobic/Hydrophilic Coating and Cancer Sensing. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 1666-1674.	8.0	50
62	Micropatterning of ZnO Nanoarrays by Forced Hydrolysis of Anhydrous Zinc Acetate. <i>Langmuir</i> , 2008, 24, 7614-7617.	3.5	49
63	In ₂ O ₃ ·SnO ₂ nano-toasts and nanorods: Precipitation preparation, formation mechanism, and gas sensitive properties. <i>Sensors and Actuators B: Chemical</i> , 2009, 137, 630-636.	7.8	48
64	Influence of fluorine substitution on the morphology and structure of hydroxyapatite nanocrystals prepared by hydrothermal method. <i>Materials Chemistry and Physics</i> , 2013, 137, 967-976.	4.0	48
65	Arrangement of Nanosized Ceramic Particles on Self-Assembled Monolayers. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 4596-4600.	1.5	47
66	A novel process to form a silica-like thin layer on polyethylene terephthalate film and its application for gas barrier. <i>Thin Solid Films</i> , 2005, 473, 351-356.	1.8	47
67	Site-selective deposition and micropatterning of tantalum oxide thin films using a monolayer. <i>Journal of the European Ceramic Society</i> , 2004, 24, 301-307.	5.7	45
68	Fabrication of Super-Site-Selective TiO ₂ Micropattern on a Flexible Polymer Substrate Using a Barrier-Effect Self-Assembly Process. <i>Advanced Materials</i> , 2004, 16, 1461-1464.	21.0	45
69	Aqueous Synthesis of ZnO Rod Arrays for Molecular Sensor. <i>Crystal Growth and Design</i> , 2009, 9, 3083-3088.	3.0	45
70	SnO ₂ Nanosheet/Nanoparticle Detector for the Sensing of 1-Nonanal Gas Produced by Lung Cancer. <i>Scientific Reports</i> , 2015, 5, 10122.	3.3	45
71	Growth and electrical properties of ZnO films prepared by chemical bath deposition method. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 718-723.	1.8	44
72	Morphology Control of Zinc Oxide Particles at Low Temperature. <i>Crystal Growth and Design</i> , 2008, 8, 2633-2637.	3.0	42

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73	Dissolution-Recrystallization Induced Hierarchical Structure in ZnO: Bunched Roselike and Core-Shell-like Particles. <i>Crystal Growth and Design</i> , 2010, 10, 626-631.	3.0	42
74	High performance acetone gas sensor based on ultrathin porous NiO nanosheet. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132143.	7.8	42
75	Nanocrystal Assembled TiO ₂ Particles Prepared from Aqueous Solution. <i>Crystal Growth and Design</i> , 2008, 8, 3213-3218.	3.0	41
76	Synthesis and in-depth analysis of highly ordered yttrium doped hydroxyapatite nanorods prepared by hydrothermal method and its mechanical analysis. <i>Materials Characterization</i> , 2011, 62, 1109-1115.	4.4	39
77	Aqueous synthesis of nanosheet assembled tin oxide particles and their N ₂ adsorption characteristics. <i>Journal of Crystal Growth</i> , 2009, 311, 593-596.	1.5	38
78	Morphology control of ZnO crystalline particles in aqueous solution. <i>Electrochimica Acta</i> , 2007, 53, 171-174.	5.2	37
79	Fabrication and H ₂ -Sensing Properties of SnO ₂ Nanosheet Gas Sensors. <i>ACS Omega</i> , 2018, 3, 14592-14596.	3.5	37
80	Transition-Metal-Doped NIR-Emitting Silicon Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6157-6160.	13.8	35
81	Anatase TiO ₂ films crystallized on SnO ₂ :F substrates in an aqueous solution. <i>Thin Solid Films</i> , 2008, 516, 2547-2552.	1.8	34
82	Shape-Controlled Growth of In(OH) ₃ /In ₂ O ₃ Nanostructures by Electrodeposition. <i>Langmuir</i> , 2010, 26, 14814-14820.	3.5	33
83	Fast synthesis, optical and bio-sensor properties of SnO ₂ nanostructures by electrochemical deposition. <i>Chemical Engineering Journal</i> , 2011, 168, 955-958.	12.7	33
84	Synthesis of indium oxide cubic crystals by modified hydrothermal route for application in room temperature flexible ethanol sensors. <i>Materials Chemistry and Physics</i> , 2012, 133, 47-54.	4.0	33
85	Two-dimensional arrangement of fine silica spheres on self-assembled monolayers. <i>Thin Solid Films</i> , 2001, 382, 183-189.	1.8	32
86	Superhydrophobic and H ₂ S gas sensing properties of CuO nanostructured thin films through a successive ionic layered adsorption reaction process. <i>RSC Advances</i> , 2016, 6, 24290-24298.	3.6	32
87	Site-Selective Deposition of In ₂ O ₃ Using a Self-Assembled Monolayer. <i>Crystal Growth and Design</i> , 2009, 9, 555-561.	3.0	31
88	Superhydrophobic Ag decorated ZnO nanostructured thin film as effective surface enhanced Raman scattering substrates. <i>Applied Surface Science</i> , 2015, 355, 969-977.	6.1	31
89	Photoluminescence from ZnO Nanoparticles Embedded in an Amorphous Matrix. <i>Crystal Growth and Design</i> , 2008, 8, 1503-1508.	3.0	30
90	Liquid phase formation of alkyl- and perfluoro-phosphonic acid derived monolayers on magnesium alloy AZ31 and their chemical properties. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 280-288.	9.4	30

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91	Anisotropic Thermoelectric Properties of Crystal-Axis Oriented Ceramics of Layer-Structured Oxide in the Ca-Co-O System.. Journal of the Ceramic Society of Japan, 2001, 109, 647-650.	1.3	29
92	Preparation of SrTiO ₃ thin films by the liquid phase deposition method. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 99, 290-293.	3.5	29
93	Deposition mechanism of anatase TiO ₂ from an aqueous solution and its site-selective deposition. Solid State Ionics, 2004, 172, 283-288.	2.7	28
94	Deposition of $\hat{1}^3$ -FeOOH, Fe ₃ O ₄ and Fe on Pd-catalyzed substrates. Journal of Crystal Growth, 2005, 284, 176-183.	1.5	28
95	Exfoliation of Layers in Na_{<I>x</I>}CoO₂. Journal of Nanoscience and Nanotechnology, 2006, 6, 1632-1638.	0.9	28
96	Ca-doped HoCoO ₃ as p-type oxide thermoelectric material. Materials Letters, 2001, 48, 225-229.	2.6	27
97	Emerging Atomic Energy Levels in Zero-Dimensional Silicon Quantum Dots. Nano Letters, 2020, 20, 1491-1498.	9.1	27
98	Flexible Solar-Cell from Zinc Oxide Nanocrystalline Sheets Self-Assembled by an <I>In-Situ</I> Electrodeposition Process. Journal of Nanoscience and Nanotechnology, 2006, 6, 1797-1801.	0.9	26
99	Room Temperature CVD of TiO₂ Thin Films and Their Electronic Properties. Science of Advanced Materials, 2009, 1, 138-143.	0.7	26
100	Site-Selective Deposition and Micropatterning of Zirconia Thin Films on Templates of Self-Assembled Monolayers. Journal of the Ceramic Society of Japan, 2002, 110, 379-385.	1.3	25
101	Micropatterning of Ni particles on a BaTiO ₃ green sheet using a self-assembled monolayer. Journal of Colloid and Interface Science, 2003, 263, 190-195.	9.4	25
102	Facile Synthesis, Characterization of ZnO Nanotubes and Nanoflowers in an Aqueous Solution. Journal of the American Ceramic Society, 2010, 93, 887-893.	3.8	25
103	Superhydrophilic SnO ₂ nanosheet-assembled film. Thin Solid Films, 2013, 544, 567-570.	1.8	25
104	Liquid Phase Patterning of Ceramics(Review). Journal of the Ceramic Society of Japan, 2007, 115, 101-109.	1.3	24
105	Effect of calcium doping on LaCoO ₃ prepared by Pechini method. Powder Technology, 2013, 235, 140-147.	4.2	24
106	Synthesis and structure refinement studies of LiNiVO ₄ electrode material for lithium rechargeable batteries. Ionics, 2013, 19, 17-23.	2.4	24
107	Nano/Micro Patterning of Inorganic Thin Films. Bulletin of the Chemical Society of Japan, 2008, 81, 1337-1376.	3.2	23
108	Highly Enhanced Surface Area of Tin Oxide Nanocrystals. Journal of the American Ceramic Society, 2010, 93, 2140-2143.	3.8	23

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109	Preparation of surface-modified mesoporous silica membranes and separation mechanism of their pervaporation properties. <i>Desalination</i> , 2011, 280, 139-145.	8.2	23
110	Micropatterning of lanthanum-based oxide thin film on self-assembled monolayers. <i>Journal of Colloid and Interface Science</i> , 2004, 274, 392-397.	9.4	22
111	Site-Selective Chemical Reaction on Flexible Polymer Films for Tin Oxide Nanosheet Patterning. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2819-2825.	2.0	22
112	A facile template-free route to synthesize porous ZnO nanosheets with high surface area. <i>Journal of Alloys and Compounds</i> , 2013, 580, 373-376.	5.5	22
113	Light-excited superhydrophilicity of amorphous TiO ₂ thin films deposited in an aqueous peroxotitanate solution. <i>Langmuir</i> , 2004, 20, 3188-94.	3.5	22
114	In situ forced hydrolysis-assisted fabrication and photo-induced electrical property in sensor of ZnO nanoarrays. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 459-463.	9.4	21
115	Synthesis of CeO ₂ nanorods with improved photocatalytic activity: comparison between precipitation and hydrothermal process. <i>Journal of Materials Science: Materials in Electronics</i> , 2013, 24, 1644-1650.	2.2	21
116	Highly monodispersed Ag embedded SiO ₂ nanostructured thin film for sensitive SERS substrate: growth, characterization and detection of dye molecules. <i>RSC Advances</i> , 2015, 5, 46229-46239.	3.6	21
117	Fabrication of Zn(OH) ₂ /ZnO Nanosheet@ZnO Nanoarray Hybrid Structured Films by a Dissolution-Recrystallization Route. <i>Journal of the American Ceramic Society</i> , 2010, 93, 881-886.	3.8	20
118	Improved Brightness and Color Tunability of Solution-Processed Silicon Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23333-23342.	3.1	20
119	Highly Sensitive and Selective Gas Sensors Based on NiO/MnO ₂ @NiO Nanosheets to Detect Allyl Mercaptan Gas Released by Humans under Psychological Stress. <i>Advanced Science</i> , 2022, 9, .	11.2	20
120	Growth Behavior of TiO ₂ Particles via the Liquid Phase Deposition Process. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 831-834.	1.1	19
121	Facet controlled growth mechanism of SnO ₂ (101) nanosheet assembled film via cold crystallization. <i>Scientific Reports</i> , 2021, 11, 11304.	3.3	19
122	Atomic step formation on porous ZnO nanobelts: remarkable promotion of acetone gas detection up to the parts per trillion level. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13839-13847.	10.3	19
123	Comparison of Medical Treatments for the Dying in a Hospice and a Geriatric Hospital in Japan. <i>Journal of Palliative Medicine</i> , 2006, 9, 152-160.	1.1	18
124	Room-temperature synthesis of tin oxide nano-electrodes in aqueous solutions. <i>Thin Solid Films</i> , 2009, 518, 850-852.	1.8	18
125	Polyethylenimine-Guided Self-Twin Zinc Oxide Nanoarray Assemblies. <i>Crystal Growth and Design</i> , 2009, 9, 3598-3602.	3.0	18
126	Influence of Fe doping on the electrical properties of Sr ₂ MgMoO ₆ . <i>Materials Chemistry and Physics</i> , 2013, 139, 360-363.	4.0	18

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127	Fluorescence detection and imaging of amino-functionalized organic monolayer. <i>Thin Solid Films</i> , 2008, 516, 2541-2546.	1.8	17
128	Synthesis of Acicular BaTiO ₃ Particles using Acicular Barium Oxalates. <i>Crystal Growth and Design</i> , 2008, 8, 169-171.	3.0	17
129	Tin oxide coating on polytetrafluoroethylene films in aqueous solutions. <i>Polymers for Advanced Technologies</i> , 2010, 21, 211-215.	3.2	17
130	Highly porous ZnO nanosheets self-assembled in rosette-like morphologies for dye-sensitized solar cell application. <i>New Journal of Chemistry</i> , 2015, 39, 7961-7970.	2.8	17
131	Selective nonanal molecular recognition with SnO ₂ nanosheets for lung cancer sensor. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1807-1811.	2.1	17
132	Selective Detection of Target Volatile Organic Compounds in Contaminated Air Using Sensor Array with Machine Learning: Aging Notes and Mold Smells in Simulated Automobile Interior Contaminant Gases. <i>Sensors</i> , 2020, 20, 2687.	3.8	17
133	Self-assembly of Particle Wires in 2-D Ordered Array. <i>Chemistry Letters</i> , 2003, 32, 1016-1017.	1.3	16
134	Atomic scale flattening of organosilane self-assembled monolayer and patterned tin hydroxide thin films. <i>Journal of the European Ceramic Society</i> , 2004, 24, 427-434.	5.7	16
135	Liquid Manipulation Lithography to Fabricate a Multifunctional Microarray of Organosilanes on an Oxide Surface under Ambient Conditions. <i>Advanced Functional Materials</i> , 2008, 18, 3049-3055.	14.9	16
136	Fabrication of Blanket-Like Assembled ZnO Nanowhiskers Using an Aqueous Solution. <i>Journal of the American Ceramic Society</i> , 2009, 92, 922-926.	3.8	16
137	Dye Adsorption Characteristics of Anatase TiO ₂ Film Prepared in an Aqueous Solution. <i>Thin Solid Films</i> , 2009, 518, 845-849.	1.8	16
138	Preparation of single-crystalline ZnO films on ZnO-buffered a-plane sapphire by chemical bath deposition. <i>Journal of Crystal Growth</i> , 2009, 311, 3687-3691.	1.5	16
139	Room-temperature synthesis and characterization of porous CeO ₂ thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 139-142.	1.8	16
140	Water bathing synthesis of high-surface-area nanocrystal-assembled SnO ₂ particles. <i>Journal of Solid State Chemistry</i> , 2012, 189, 21-24.	2.9	16
141	Structural and conductivity analysis on cerium fluoride nanoparticles prepared by sonication assisted method. <i>Solid State Sciences</i> , 2012, 14, 626-634.	3.2	15
142	Shape-controlled synthesis of γ -Fe ₂ O ₃ nanostructures: engineering their surface properties for improved photocatalytic degradation efficiency. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	15
143	Structural, electrical and electrochemical studies of LiCoVO ₄ cathode material for lithium rechargeable batteries. <i>Powder Technology</i> , 2013, 235, 454-459.	4.2	15
144	Effect of Coordinatively Unsaturated Sites in MOF-Derived Highly Porous CuO for Catalyst-Free ppb-Level Gas Sensors. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100283.	3.7	15

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145	Acicular crystal-assembled TiO ₂ thin films and their deposition mechanism. <i>Journal of Crystal Growth</i> , 2009, 311, 512-517.	1.5	14
146	Low-temperature fabrication of ZnO nanoarray films by forced hydrolysis of anhydrous zinc acetate layer. <i>Journal of Crystal Growth</i> , 2009, 311, 597-600.	1.5	14
147	Liquid phase deposited titania coating to enable in vitro apatite formation on Ti6Al4V alloy. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 375-381.	3.6	14
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