

Takayoshi Sasaki

List of Publications by Year in descending order

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372
papers

34,839
citations

2802

94
h-index

4015

176
g-index

377
all docs

377
docs citations

377
times ranked

25593
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity in two-dimensional CoO ₂ layers. <i>Nature</i> , 2003, 422, 53-55.	27.8	1,706
2	Synthesis, Anion Exchange, and Delamination of Co ²⁺ /Al Layered Double Hydroxide: Assembly of the Exfoliated Nanosheet/Polyanion Composite Films and Magneto-Optical Studies. <i>Journal of the American Chemical Society</i> , 2006, 128, 4872-4880.	13.7	1,147
3	Two-Dimensional Dielectric Nanosheets: Novel Nanoelectronics From Nanocrystal Building Blocks. <i>Advanced Materials</i> , 2012, 24, 210-228.	21.0	987
4	Nanosheets of Oxides and Hydroxides: Ultimate 2D Charge-Bearing Functional Crystallites. <i>Advanced Materials</i> , 2010, 22, 5082-5104.	21.0	883
5	Macromolecule-like Aspects for a Colloidal Suspension of an Exfoliated Titanate. Pairwise Association of Nanosheets and Dynamic Reassembling Process Initiated from It. <i>Journal of the American Chemical Society</i> , 1996, 118, 8329-8335.	13.7	807
6	Redoxable Nanosheet Crystallites of MnO ₂ Derived via Delamination of a Layered Manganese Oxide. <i>Journal of the American Chemical Society</i> , 2003, 125, 3568-3575.	13.7	656
7	Osmotic Swelling to Exfoliation. Exceptionally High Degrees of Hydration of a Layered Titanate. <i>Journal of the American Chemical Society</i> , 1998, 120, 4682-4689.	13.7	652
8	A Superlattice of Alternately Stacked Ni ²⁺ /Fe Hydroxide Nanosheets and Graphene for Efficient Splitting of Water. <i>ACS Nano</i> , 2015, 9, 1977-1984.	14.6	635
9	Selective and Controlled Synthesis of δ - and β -Cobalt Hydroxides in Highly Developed Hexagonal Platelets. <i>Journal of the American Chemical Society</i> , 2005, 127, 13869-13874.	13.7	624
10	LiNbO ₃ -coated LiCoO ₂ as cathode material for all solid-state lithium secondary batteries. <i>Electrochemistry Communications</i> , 2007, 9, 1486-1490.	4.7	620
11	Titanium Oxide Nanosheets: Graphene Analogues with Versatile Functionalities. <i>Chemical Reviews</i> , 2014, 114, 9455-9486.	47.7	557
12	Exfoliated oxide nanosheets: new solution to nanoelectronics. <i>Journal of Materials Chemistry</i> , 2009, 19, 2503.	6.7	543
13	Thermoresponsive actuation enabled by permittivity switching in an electrostatically anisotropic hydrogel. <i>Nature Materials</i> , 2015, 14, 1002-1007.	27.5	530
14	Electronic Band Structure of Titania Semiconductor Nanosheets Revealed by Electrochemical and Photoelectrochemical Studies. <i>Journal of the American Chemical Society</i> , 2004, 126, 5851-5858.	13.7	507
15	Positively Charged Nanosheets Derived via Total Delamination of Layered Double Hydroxides. <i>Chemistry of Materials</i> , 2005, 17, 4386-4391.	6.7	487
16	Organic-Base-Driven Intercalation and Delamination for the Production of Functionalized Titanium Carbide Nanosheets with Superior Photothermal Therapeutic Performance. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14569-14574.	13.8	480
17	Exfoliating layered double hydroxides in formamide: a method to obtain positively charged nanosheets. <i>Journal of Materials Chemistry</i> , 2006, 16, 3809.	6.7	475
18	An anisotropic hydrogel with electrostatic repulsion between cofacially aligned nanosheets. <i>Nature</i> , 2015, 517, 68-72.	27.8	440

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19	Two-Dimensional Oxide and Hydroxide Nanosheets: Controllable High-Quality Exfoliation, Molecular Assembly, and Exploration of Functionality. <i>Accounts of Chemical Research</i> , 2015, 48, 136-143.	15.6	425
20	Two dimensional and layered transition metal oxides. <i>Applied Materials Today</i> , 2016, 5, 73-89.	4.3	400
21	Layer-by-Layer Assembly of Titania Nanosheet/Polycation Composite Films. <i>Chemistry of Materials</i> , 2001, 13, 4661-4667.	6.7	355
22	Synthesis and Exfoliation of Co ²⁺ /Fe ³⁺ -Layered Double Hydroxides: An Innovative Topochemical Approach. <i>Journal of the American Chemical Society</i> , 2007, 129, 5257-5263.	13.7	355
23	Nanotubes of lepidocrocite titanates. <i>Chemical Physics Letters</i> , 2003, 380, 577-582.	2.6	344
24	Topochemical Synthesis, Anion Exchange, and Exfoliation of Co ²⁺ /Ni Layered Double Hydroxides: A Route to Positively Charged Co ²⁺ /Ni Hydroxide Nanosheets with Tunable Composition. <i>Chemistry of Materials</i> , 2010, 22, 371-378.	6.7	323
25	Semiconductor Nanosheet Crystallites of Quasi-TiO ₂ and Their Optical Properties. <i>Journal of Physical Chemistry B</i> , 1997, 101, 10159-10161.	2.6	298
26	Interfacial modification for high-power solid-state lithium batteries. <i>Solid State Ionics</i> , 2008, 179, 1333-1337.	2.7	297
27	Structural Features of Titanate Nanotubes/Nanobelts Revealed by Raman, X-ray Absorption Fine Structure and Electron Diffraction Characterizations. <i>Journal of Physical Chemistry B</i> , 2005, 109, 6210-6214.	2.6	290
28	Layer-by-Layer Assembly and Spontaneous Flocculation of Oppositely Charged Oxide and Hydroxide Nanosheets into Inorganic Sandwich Layered Materials. <i>Journal of the American Chemical Society</i> , 2007, 129, 8000-8007.	13.7	288
29	Restacked Perovskite Nanosheets and Their Pt-Loaded Materials as Photocatalysts. <i>Chemistry of Materials</i> , 2002, 14, 4390-4395.	6.7	241
30	General Synthesis and Delamination of Highly Crystalline Transition-Metal-Bearing Layered Double Hydroxides. <i>Langmuir</i> , 2007, 23, 861-867.	3.5	238
31	General Synthesis and Structural Evolution of a Layered Family of Ln ₈ (OH) ₂₀ Cl ₄ ·nH ₂ O (Ln = Nd, Sm, Eu, Gd, Tb, Tm, Yb, Lu) <i>Journal of Physical Chemistry B</i> , 2007, 111, 10784-10791.	0.78	144
32	Fabrication of Titanium Dioxide Thin Flakes and Their Porous Aggregate. <i>Chemistry of Materials</i> , 1997, 9, 602-608.	6.7	230
33	Oversized Titania Nanosheet Crystallites Derived from Flux-Grown Layered Titanate Single Crystals. <i>Chemistry of Materials</i> , 2003, 15, 3564-3568.	6.7	224
34	Preparation and Acid-Base Properties of a Protonated Titanate with the Lepidocrocite-like Layer Structure. <i>Chemistry of Materials</i> , 1995, 7, 1001-1007.	6.7	215
35	Topochemical Synthesis of Monometallic (Co ²⁺ and Co ³⁺) Layered Double Hydroxide and Its Exfoliation into Positively Charged Co(OH) ₂ Nanosheets. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 86-89.	13.8	215
36	A Mixed Alkali Metal Titanate with the Lepidocrocite-like Layered Structure. Preparation, Crystal Structure, Protonic Form, and Acid-Base Intercalation Properties. <i>Chemistry of Materials</i> , 1998, 10, 4123-4128.	6.7	214

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37	Directly Rolling Nanosheets into Nanotubes. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2115-2119.	2.6	212
38	A General Strategy to Layered Transition-Metal Hydroxide Nanocones: Tuning the Composition for High Electrochemical Performance. <i>Advanced Materials</i> , 2012, 24, 2148-2153.	21.0	209
39	Two-Dimensional Diffraction of Molecular Nanosheet Crystallites of Titanium Oxide. <i>Journal of Physical Chemistry B</i> , 2001, 105, 6116-6121.	2.6	205
40	Topochemical Synthesis of Co ²⁺ /Fe Layered Double Hydroxides at Varied Fe/Co Ratios: Unique Intercalation of Triiodide and Its Profound Effect. <i>Journal of the American Chemical Society</i> , 2011, 133, 613-620.	13.7	198
41	Fabrication of Controllable Ultrathin Hollow Shells by Layer-by-Layer Assembly of Exfoliated Titania Nanosheets on Polymer Templates. <i>Chemistry of Materials</i> , 2002, 14, 4827-4832.	6.7	192
42	Tetrahedral Co(II) Coordination in δ -Type Cobalt Hydroxide: Rietveld Refinement and X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2006, 45, 3964-3969.	4.0	191
43	Interface Modulation of Two-Dimensional Superlattices for Efficient Overall Water Splitting. <i>Nano Letters</i> , 2019, 19, 4518-4526.	9.1	191
44	Layer-by-Layer Assembled Multilayer Films of Titanate Nanotubes, Ag- or Au-Loaded Nanotubes, and Nanotubes/Nanosheets with Polycations. <i>Journal of the American Chemical Society</i> , 2004, 126, 10382-10388.	13.7	190
45	Photocurrent Generation from Semiconducting Manganese Oxide Nanosheets in Response to Visible Light. <i>Journal of Physical Chemistry B</i> , 2005, 109, 9651-9655.	2.6	184
46	Anion-Exchangeable Layered Materials Based on Rare-Earth Phosphors: Unique Combination of Rare-Earth Host and Exchangeable Anions. <i>Accounts of Chemical Research</i> , 2010, 43, 1177-1185.	15.6	184
47	Unilamellar Metallic MoS ₂ /Graphene Superlattice for Efficient Sodium Storage and Hydrogen Evolution. <i>ACS Energy Letters</i> , 2018, 3, 997-1005.	17.4	184
48	Fabrication and Characterization of Multilayer Ultrathin Films of Exfoliated MnO ₂ Nanosheets and Polycations. <i>Chemistry of Materials</i> , 2003, 15, 2873-2878.	6.7	173
49	New Layered Rare-Earth Hydroxides with Anion-Exchange Properties. <i>Chemistry - A European Journal</i> , 2008, 14, 9255-9260.	3.3	173
50	Construction of Highly Ordered Lamellar Nanostructures through Langmuir-Blodgett Deposition of Molecularly Thin Titania Nanosheets Tens of Micrometers Wide and Their Excellent Dielectric Properties. <i>ACS Nano</i> , 2009, 3, 1097-1106.	14.6	171
51	Organic-Base-Driven Intercalation and Delamination for the Production of Functionalized Titanium Carbide Nanosheets with Superior Photothermal Therapeutic Performance. <i>Angewandte Chemie</i> , 2016, 128, 14789-14794.	2.0	167
52	Layered hydrous titanium dioxide: potassium ion exchange and structural characterization. <i>Inorganic Chemistry</i> , 1985, 24, 2265-2271.	4.0	162
53	Interfacial phenomena in solid-state lithium battery with sulfide solid electrolyte. <i>Solid State Ionics</i> , 2012, 225, 594-597.	2.7	161
54	Molecular-Scale Heteroassembly of Redoxable Hydroxide Nanosheets and Conductive Graphene into Superlattice Composites for High-Performance Supercapacitors. <i>Advanced Materials</i> , 2014, 26, 4173-4178.	21.0	161

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55	Hollow nanoshell of layered double hydroxide. <i>Chemical Communications</i> , 2006, , 3125.	4.1	158
56	Single-layer nanosheets with exceptionally high and anisotropic hydroxyl ion conductivity. <i>Science Advances</i> , 2017, 3, e1602629.	10.3	154
57	First-Principles Study of Two-Dimensional Titanium Dioxides. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9824-9828.	2.6	152
58	Flexible Lithium-Ion Fiber Battery by the Regular Stacking of Two-Dimensional Titanium Oxide Nanosheets Hybridized with Reduced Graphene Oxide. <i>Nano Letters</i> , 2017, 17, 3543-3549.	9.1	148
59	Synthesis and Delamination of Layered Manganese Oxide Nanobelts. <i>Chemistry of Materials</i> , 2007, 19, 6504-6512.	6.7	146
60	Segregative Crystallization of Several Diamond-like Phases from the Graphitic BC ₂ N without an Additive at 7.7 GPa. <i>Chemistry of Materials</i> , 1994, 6, 2246-2251.	6.7	145
61	Fabrication of Densely Packed Titania Nanosheet Films on Solid Surface by Use of Langmuir-Blodgett Deposition Method without Amphiphilic Additives. <i>Langmuir</i> , 2005, 21, 6590-6595.	3.5	144
62	Photocatalyst of Lamellar Aggregates of RuO _x -Loaded Perovskite Nanosheets for Overall Water Splitting. <i>Journal of Physical Chemistry B</i> , 2005, 109, 17212-17216.	2.6	141
63	Robust High- $\hat{\nu}$ Response in Molecularly Thin Perovskite Nanosheets. <i>ACS Nano</i> , 2010, 4, 5225-5232.	14.6	141
64	Engineered Interfaces of Artificial Perovskite Oxide Superlattices <i>via</i> Nanosheet Deposition Process. <i>ACS Nano</i> , 2010, 4, 6673-6680.	14.6	141
65	Titanium Dioxide Hollow Microspheres with an Extremely Thin Shell. <i>Chemistry of Materials</i> , 1998, 10, 3780-3782.	6.7	140
66	An Anisotropic Hydrogel Actuator Enabling Earthworm-Like Directed Peristaltic Crawling. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15772-15776.	13.8	139
67	Factors affecting the crystal size of the MgAl-LDH (layered double hydroxide) prepared by using ammonia-releasing reagents. <i>Applied Clay Science</i> , 2007, 37, 23-31.	5.2	136
68	Fabrication of Nanostructured Functional Materials Using Exfoliated Nanosheets as a Building Block. <i>Journal of the Ceramic Society of Japan</i> , 2007, 115, 9-16.	1.3	134
69	Development of efficient electrocatalysts via molecular hybridization of NiMn layered double hydroxide nanosheets and graphene. <i>Nanoscale</i> , 2016, 8, 10425-10432.	5.6	134
70	Strain engineering of two-dimensional multilayered heterostructures for beyond-lithium-based rechargeable batteries. <i>Nature Communications</i> , 2020, 11, 3297.	12.8	134
71	Titania Nanostructured Films Derived from a Titania Nanosheet/Polycation Multilayer Assembly via Heat Treatment and UV Irradiation. <i>Chemistry of Materials</i> , 2002, 14, 3524-3530.	6.7	132
72	Synthesis of a Li ⁺ Mn-oxide with Disordered Layer Stacking through Flocculation of Exfoliated MnO ₂ Nanosheets, and Its Electrochemical Properties. <i>Chemistry of Materials</i> , 2003, 15, 4508-4514.	6.7	130

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73	Exfoliated Nanosheet Crystallite of Cesium Tungstate with 2D Pyrochlore Structure: Synthesis, Characterization, and Photochromic Properties. <i>ACS Nano</i> , 2008, 2, 1689-1695.	14.6	130
74	Oriented Monolayer Film of $Gd_2O_3:0.05\%Eu$ Crystallites: Quasi- <i>c</i> -Topotactic Transformation of the Hydroxide Film and Drastic Enhancement of Photoluminescence Properties. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 3846-3849.	13.8	128
75	Water-Swellable $MgAl-LDH$ (Layered Double Hydroxide) Hybrids: Synthesis, Characterization, and Film Preparation. <i>Langmuir</i> , 2008, 24, 5591-5598.	3.5	127
76	Simultaneous crystallization of diamond and cubic boron nitride from the graphite relative boron carbide nitride (BC ₂ N) under high pressure/high temperature conditions. <i>Chemistry of Materials</i> , 1993, 5, 695-699.	6.7	125
77	Gigantic Swelling of Inorganic Layered Materials: A Bridge to Molecularly Thin Two-Dimensional Nanosheets. <i>Journal of the American Chemical Society</i> , 2014, 136, 5491-5500.	13.7	125
78	2D Layered Double Hydroxide Nanosheets and Their Derivatives Toward Efficient Oxygen Evolution Reaction. <i>Nano-Micro Letters</i> , 2020, 12, 86.	27.0	124
79	General Insights into Structural Evolution of Layered Double Hydroxide: Underlying Aspects in Topochemical Transformation from Brucite to Layered Double Hydroxide. <i>Journal of the American Chemical Society</i> , 2012, 134, 19915-19921.	13.7	122
80	Genuine Unilamellar Metal Oxide Nanosheets Confined in a Superlattice-like Structure for Superior Energy Storage. <i>ACS Nano</i> , 2018, 12, 1768-1777.	14.6	122
81	Unusual Crystallization Behaviors of Anatase Nanocrystallites from a Molecularly Thin Titania Nanosheet and Its Stacked Forms: Increase in Nucleation Temperature and Oriented Growth. <i>Journal of the American Chemical Society</i> , 2007, 129, 202-209.	13.7	121
82	Preparation and Characterization of the Eu^{3+} Doped Perovskite Nanosheet Phosphor: $La_{0.90}Eu_{0.05}Nb_2O_7$. <i>Chemistry of Materials</i> , 2007, 19, 6575-6580.	6.7	120
83	Unusually stable ~100-fold reversible and instantaneous swelling of inorganic layered materials. <i>Nature Communications</i> , 2013, 4, 1632.	12.8	119
84	Chemical composition and crystal structure of superconducting sodium cobalt oxide bilayer-hydrate. Electronic supplementary information (ESI) available: Rietveld refinement patterns. See http://www.rsc.org/suppdata/jm/b4/b400181h/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 1448.	6.7	117
85	2D Superlattices for Efficient Energy Storage and Conversion. <i>Advanced Materials</i> , 2020, 32, e1902654.	21.0	117
86	Multilayer ultrathin films of molecular titania nanosheets showing highly efficient UV-light absorption. <i>Chemical Communications</i> , 2000, , 2163-2164.	4.1	113
87	Osmotic Swelling of Layered Compounds as a Route to Producing High-Quality Two-Dimensional Materials. A Comparative Study of Tetramethylammonium versus Tetrabutylammonium Cation in a Lepidocrocite-type Titanate. <i>Chemistry of Materials</i> , 2013, 25, 3137-3146.	6.7	111
88	Two-Dimensional Unilamellar Cation-Deficient Metal Oxide Nanosheet Superlattices for High-Rate Sodium Ion Energy Storage. <i>ACS Nano</i> , 2018, 12, 12337-12346.	14.6	111
89	Synthesis and Properties of Well-Crystallized Layered Rare-Earth Hydroxide Nitrates from Homogeneous Precipitation. <i>Inorganic Chemistry</i> , 2009, 48, 6724-6730.	4.0	110
90	$Ln_2(OH)_4SO_4 \cdot nH_2O$ ($Ln = Pr$ to Tb ; $n = 1/4, 2$): A New Family of Layered Rare-Earth Hydroxides Rigidly Pillared by Sulfate Ions. <i>Chemistry of Materials</i> , 2010, 22, 6001-6007.	6.7	104

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91	Analysis of the structure and degree of crystallisation of $70\text{Li}_{20}\text{P}_{20}\text{S}_{50}$ glass ceramic. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2756-2761.	10.3	100
92	Self-Assembled Multilayers of Titania Nanoparticles and Nanosheets with Polyelectrolytes. <i>Chemistry of Materials</i> , 2003, 15, 807-812.	6.7	99
93	Colloidal Unilamellar Layers of Tantalum Oxide with Open Channels. <i>Inorganic Chemistry</i> , 2007, 46, 4787-4789.	4.0	99
94	Photocatalytic properties of titania nanostructured films fabricated from titania nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 2413.	2.8	98
95	Exfoliation of Layered Europium Hydroxide into Unilamellar Nanosheets. <i>Chemistry - an Asian Journal</i> , 2010, 5, 248-251.	3.3	96
96	Preparation of highly oriented organic-LDH hybrid films by combining the decarbonation, anion-exchange, and delamination processes. <i>Journal of Materials Chemistry</i> , 2006, 16, 1608-1616.	6.7	95
97	Highly efficient quasi-static water desalination using monolayer graphene oxide/titania hybrid laminates. <i>NPG Asia Materials</i> , 2015, 7, e162-e162.	7.9	94
98	Protonated pentatitanate: preparation, characterizations and cation intercalation. <i>Chemistry of Materials</i> , 1992, 4, 894-899.	6.7	92
99	Inorganic Multilayer Films of Manganese Oxide Nanosheets and Aluminum Polyoxocations: Fabrication, Structure, and Electrochemical Behavior. <i>Chemistry of Materials</i> , 2005, 17, 1352-1357.	6.7	92
100	Synthesis and characterization of water-swellaable LDH (layered double hydroxide) hybrids containing sulfonate-type intercalant. <i>Journal of Materials Chemistry</i> , 2011, 21, 8085.	6.7	92
101	Multilayer Hybrid Films of Titania Semiconductor Nanosheet and Silver Metal Fabricated via Layer-by-Layer Self-Assembly and Subsequent UV Irradiation. <i>Chemistry of Materials</i> , 2006, 18, 1235-1239.	6.7	86
102	Layered Cobalt Hydroxide Nanocones: Microwave-Assisted Synthesis, Exfoliation, and Structural Modification. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 8253-8256.	13.8	86
103	Photolatently modulable hydrogels using unilamellar titania nanosheets as photocatalytic crosslinkers. <i>Nature Communications</i> , 2013, 4, 2029.	12.8	85
104	Ultrathin Films and Hollow Shells with Pillared Architectures Fabricated via Layer-by-Layer Self-Assembly of Titania Nanosheets and Aluminum Keggin Ions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 4283-4288.	2.6	83
105	Synthesis of phosphorous sulfide solid electrolyte and all-solid-state lithium batteries with graphite electrode. <i>Solid State Ionics</i> , 2005, 176, 2389-2393.	2.7	83
106	Photonic water dynamically responsive to external stimuli. <i>Nature Communications</i> , 2016, 7, 12559.	12.8	83
107	Photoelectrochemical Properties of Alternating Multilayer Films Composed of Titania Nanosheets and Zn Porphyrin. <i>Langmuir</i> , 2007, 23, 6730-6736.	3.5	82
108	All-Nanosheet Ultrathin Capacitors Assembled Layer-by-Layer via Solution-Based Processes. <i>ACS Nano</i> , 2014, 8, 2658-2666.	14.6	82

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109	Intercalation of Pyridine in Layered Titanates. <i>Chemistry of Materials</i> , 1996, 8, 777-782.	6.7	80
110	Decarbonation of MgAl-LDHs (layered double hydroxides) using acetate buffer/NaCl mixed solution. <i>Journal of Colloid and Interface Science</i> , 2008, 322, 237-245.	9.4	80
111	Redox Active Cation Intercalation/Deintercalation in Two-Dimensional Layered MnO ₂ Nanostructures for High-Rate Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6282-6291.	8.0	80
112	Synthesis of a Solid Solution Series of Layered Eu _x Gd _{1-x} (OH) ₂ Cl _{0.5} ·0.9H ₂ O and Its Transformation into (Eu _x Gd _{1-x}) ₂ O ₃ with Enhanced Photoluminescence Properties. <i>Inorganic Chemistry</i> , 2010, 49, 2960-2968.	4.0	78
113	Electrochromic Films Composed of MnO ₂ Nanosheets with Controlled Optical Density and High Coloration Efficiency. <i>Journal of the Electrochemical Society</i> , 2005, 152, E384.	2.9	77
114	Synthesis and In Situ X-ray Diffraction Characterization of Two-Dimensional Perovskite-Type Oxide Colloids with a Controlled Molecular Thickness. <i>Chemistry of Materials</i> , 2012, 24, 4201-4208.	6.7	76
115	High-Yield Preparation, Versatile Structural Modification, and Properties of Layered Cobalt Hydroxide Nanocones. <i>Advanced Functional Materials</i> , 2014, 24, 4292-4302.	14.9	75
116	Layer-by-Layer Assembly of TaO ₃ Nanosheet/Polycation Composite Nanostructures: Multilayer Film, Hollow Sphere, and Its Photocatalytic Activity for Hydrogen Evolution. <i>Chemistry of Materials</i> , 2010, 22, 2582-2587.	6.7	74
117	Electronic Band Structure of Exfoliated Titanium- and/or Niobium-Based Oxide Nanosheets Probed by Electrochemical and Photoelectrochemical Measurements. <i>Journal of Physical Chemistry C</i> , 2012, 116, 12426-12433.	3.1	74
118	Layer-by-Layer Assembled TiO ₂ Nanoparticle/PEDOT-PSS Composite Films for Switching of Electric Conductivity in Response to Ultraviolet and Visible Light. <i>Chemistry of Materials</i> , 2006, 18, 3596-3598.	6.7	73
119	Tuning the Surface Charge of 2D Oxide Nanosheets and the Bulk-Scale Production of Superlattice-like Composites. <i>Journal of the American Chemical Society</i> , 2015, 137, 2844-2847.	13.7	73
120	All solid state Li-ion secondary battery with FeS anode. <i>Solid State Ionics</i> , 2005, 176, 2383-2387.	2.7	72
121	Controlled Polarizability of One-Nanometer-Thick Oxide Nanosheets for Tailored, High- ϵ^{\prime} Nanodielectrics. <i>Advanced Functional Materials</i> , 2011, 21, 3482-3487.	14.9	72
122	Preparation and characterizations of Fe- or Ni-substituted titania nanosheets as photocatalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002, 148, 273-276.	3.9	70
123	Unconventional upper- and lower-critical fields and normal-state magnetic susceptibility of the superconducting compound Na _{0.35} CoO ₂ ·1.3H ₂ O. <i>Physical Review B</i> , 2003, 68, .	3.2	70
124	Recent progress in functionalized layered double hydroxides and their application in efficient electrocatalytic water oxidation. <i>Journal of Energy Chemistry</i> , 2019, 32, 93-104.	12.9	70
125	Deintercalation of carbonate ions from carbonate-type layered double hydroxides (LDHs) using acid-alcohol mixed solutions. <i>Applied Clay Science</i> , 2011, 54, 132-137.	5.2	69
126	Titanoniobate and niobate nanosheet photocatalysts: superior photoinduced hydrophilicity and enhanced thermal stability of unilamellar Nb ₃ O ₈ nanosheet. <i>Energy and Environmental Science</i> , 2011, 4, 535-542.	30.8	68

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127	Hetero-nanostructured Films of Titanium and Manganese Oxide Nanosheets: Photoinduced Charge Transfer and Electrochemical Properties. <i>Journal of Physical Chemistry C</i> , 2008, 112, 5197-5202.	3.1	67
128	Photoinduced Hydrophilic Conversion Properties of Titania Nanosheets. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6198-6203.	2.6	66
129	Intrinsic high water/ion selectivity of graphene oxide lamellar membranes in concentration gradient-driven diffusion. <i>Chemical Science</i> , 2016, 7, 6988-6994.	7.4	66
130	The rise of 2D dielectrics/ferroelectrics. <i>APL Materials</i> , 2019, 7, .	5.1	66
131	Tantalum oxide nanomesh as self-standing one nanometre thick electrolyte. <i>Energy and Environmental Science</i> , 2011, 4, 3509.	30.8	64
132	Polymeric Micelle Assembly with Inorganic Nanosheets for Construction of Mesoporous Architectures with Crystallized Walls. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 4222-4225.	13.8	64
133	Two-dimensional organic-inorganic superlattice-like heterostructures for energy storage applications. <i>Energy and Environmental Science</i> , 2020, 13, 4834-4853.	30.8	64
134	Photoluminescence properties of lamellar aggregates of titania nanosheets accommodating rare earth ions. <i>Applied Physics Letters</i> , 2004, 85, 4187-4189.	3.3	63
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