Timothy J White

List of Publications by Year
in descending order

69	3,867	147801	123424
papers	citations	31 h-index	61 g-index

71	71	71	5831
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biphasic Pdâ^'Au Alloy Catalyst for Low-Temperature CO Oxidation. Journal of the American Chemical Society, 2010, 132, 10398-10406.	13.7	363
2	Nomenclature of the apatite supergroup minerals. European Journal of Mineralogy, 2010, 22, 163-179.	1.3	277
3	Lowâ€Temperature Growth of SnO₂ Nanorod Arrays and Tunable nâ€“pâ€“n Sensing Response of a ZnO/SnO₂ Heterojunction for Exclusive Hydrogen Sensors. Advanced Functional Materials, 2011, 21, 2680-2686.	14.9	218
4	Vanadium Dioxide: The Multistimuli Responsive Material and Its Applications. Small, 2018, 14, e1802025.	10.0	167
5	Pressureâ€Dependent Polymorphism and Bandâ€Gap Tuning of Methylammonium Lead Iodide Perovskite. Angewandte Chemie - International Edition, 2016, 55, 6540-6544.	13.8	157
6	Two-Dimensional SiO₂/VO₂ Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. ACS Applied Materials & Interfaces, 2016, 8, 33112-33120.	8.0	153
7	Transparent nanohybrids of nanocrystalline TiO2 in PMMA with unique nonlinear optical behavior. Journal of Materials Chemistry, 2003, 13, 1475.	6.7	144
8	Controlling the crystallinity and nonlinear optical properties of transparent TiO2â€“PMMA nanohybrids. Journal of Materials Chemistry, 2004, 14, 2978-2987.	6.7	144
9	Small and Medium sized Reactors (SMR): A review of technology. Renewable and Sustainable Energy Reviews, 2015, 44, 643-656.	16.4	131
10	Photogenerating work from polymers. Materials Today, 2008, 11, 34-42.	14.2	128
11	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. Joule, 2019, 3, 858-871.	24.0	128
12	Au Promotional Effects on the Synthesis of H2O2Directly from H2and O2on Supported Pdâ^'Au Alloy Catalysts. Journal of Physical Chemistry C, 2007, 111, 8410-8413.	3.1	121
13	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. Chemistry of Materials, 2019, 31, 9003-9011.	6.7	111
14	Hydroxyapatite Foam as a Catalyst for Formaldehyde Combustion at Room Temperature. Journal of the American Chemical Society, 2010, 132, 13172-13173.	13.7	110
15	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C₄H₉NH₃)₂PbI₄ Perovskite Exfoliated nm-Thin Flakes. Journal of the American Chemical Society, 2019, 141, 1235-1241.	13.7	95
16	Highâ€Pressureâ€Induced Comminution and Recrystallization of CH₃NH₃PbBr₃ Nanocrystals as Large Thin Nanoplates. Advanced Materials, 2018, 30, 1705017.	21.0	89
17	Removing Organic Compounds from Aqueous Medium via Wet Peroxidation by Gold Catalysts. Environmental Science & Technology, 2008, 42, 908-912.	10.0	85
18	Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH₃NH₃PbBr₃: Experiment and Theory. Chemistry of Materials, 2017, 29, 5974-5981.	6.7	80

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19	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. Journal of the American Chemical Society, 2018, 140, 13952-13957.	13.7	78
20	Synthesis of Contiguous Silicaâ^'Gold Coreâ^'Shell Structures:â€‰ Critical Parameters and Processes. Langmuir, 2008, 24, 5109-5112.	3.5	73
21	Towards AI-powered personalization in MOOC learning. Npj Science of Learning, 2017, 2, 15.	2.8	59
22	Y2O3:Tb Nanocrystals Self-Assembly into Nanorods by Oriented Attachment Mechanism. Journal of Physical Chemistry C, 2007, 111, 7893-7897.	3.1	57
23	Titanate Ceramics for the Immobilization of Sodium-Bearing High-Level Nuclear Waste. Journal of the American Ceramic Society, 1988, 71, 678-688.	3.8	51
24	Incorporation of Transuranic Elements in Titanate Nuclear Waste Ceramics. Journal of the American Ceramic Society, 1990, 73, 370-378.	3.8	43
25	Hydrothermal Dissolution of Perovskite: Implications for Synroc Formulation. Journal of the American Ceramic Society, 1987, 70, C-144-C-146.	3.8	35
26	Aging Effects on Curium-Doped Titanate Ceramic Containing Sodium-Bearing High-Level Nuclear Waste. Journal of the American Ceramic Society, 1992, 75, 392-400.	3.8	35
27	alpha-Decay Damage Effects in Curium-Doped Titanate Ceramic Containing Sodium-Free High-Level Nuclear Waste. Journal of the American Ceramic Society, 1994, 77, 2255-2264.	3.8	35
28	Model Apatite Systems for the Stabilization of Toxic Metals: I, Calcium Lead Vanadate. Journal of the American Ceramic Society, 2002, 85, 2515-2522.	3.8	35
29	One-Step Synthesis of Highly Dispersed Gold Nanocrystals on Silica Spheres. Langmuir, 2007, 23, 11421-11424.	3.5	35
30	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO_{4.25}. Journal of the American Chemical Society, 2016, 138, 1273-1279.	13.7	34
31	Performance Enhanced Light-Emitting Diodes Fabricated from Nanocrystalline CsPbBr₃ with In Situ Zn²⁺ Addition. ACS Applied Electronic Materials, 2020, 2, 4002-4011.	4.3	33
32	Model Apatite Systems for the Stabilization of Toxic Metals: II, Cation and Metalloid Substitutions in Chlorapatites. Journal of the American Ceramic Society, 2005, 88, 1253-1260.	3.8	31
33	Styrene oxidation with H2O2 over Fe- and Ti-SBA-1 mesoporous silica. Catalysis Communications, 2009, 10, 1070-1073.	3.3	29
34	Radwaste Immobilization by Structural Modification?the Crystallochemical Properties of SYNROC, a Titanate Ceramic. Angewandte Chemie International Edition in English, 1985, 24, 357-365.	4.4	28
35	Monodisperse ZnO Nanodots:â€‰ Synthesis, Charaterization, and Optoelectronic Properties. Journal of Physical Chemistry C, 2007, 111, 9757-9760.	3.1	28
36	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. Materials, 2019, 12, 1814.	2.9	27

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37	Investigating the structureâ€“function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. Journal of Materials Chemistry C, 2020, 8, 11805-11821.	5.5	27
38	Temperature-Triggered Self-Assembly of ZnO:â€‰ from Nanocrystals to Nanorods to Tablets. Inorganic Chemistry, 2007, 46, 11031-11035.	4.0	25
39	Fergusonite-type CeNbO4+: Single crystal growth, symmetry revision and conductivity. Journal of Solid State Chemistry, 2013, 204, 291-297.	2.9	25
40	Numerical investigation of supercritical water flow in a vertical pipe under axially non-uniform heat flux. Progress in Nuclear Energy, 2017, 97, 11-25.	2.9	22
41	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. Nanoscale, 2021, 13, 59-65.	5.6	20
42	Titanate Ceramics for the Stabilization of Partially Reprocessed Nuclear Fuel Elements. Journal of the American Ceramic Society, 1989, 72, 404-414.	3.8	19
43	Radiophase Development in Hot-Pressed Alkoxide-Derived Titanate Ceramics for Nuclear Waste Stabilization. Journal of the American Ceramic Society, 1989, 72, 1055-1059.	3.8	19
44	Processing Impurities as Phase Assemblage Modifiers in Titanate Nuclear Waste Ceramics. Journal of the American Ceramic Society, 1990, 73, 217-225.	3.8	19
45	Elucidation of the structural and optical properties of metal cation (Na⁺, K⁺,) Tj ETQq1 1 0.784314 rgBT /O nanocrystals. Journal of Materials Chemistry A, 2022, 10, 3562-3578.	10.3	18
46	Self-Irradiation Damage of a Curium-Doped Titanate Ceramic Containing Sodium-Rich High-Level Nuclear Waste. Journal of the American Ceramic Society, 1990, 73, 3433-3441.	3.8	17
47	The Crystal Chemistry of Ca_{10â€“y}(SiO₄)₃(SO₄)₃Cl_{2â€“x} Ellestadite. Inorganic Chemistry, 2011, 50, 12641-12650.	4.6	16
48	Crystal Chemistry of Melilite [CaLa]₂[Ga]₂[Ga₂O₇]₂: a Five Dimensional Solid Electrolyte. Inorganic Chemistry, 2012, 51, 5941-5949.	4.0	16
49	Structure and Surface Reactivity of WO₄^{2â€“}, SO₄^{2â€“}, PO₄^{3â€“} Modified Ca-Hydroxyapatite Catalysts and Their Activity in Ethanol Conversion. Journal of Physical Chemistry C, 2012, 116, 18736-18745.	3.1	16
50	Interdependence of Phase Chemistry, Microstructure, and Oxygen Fugacity in Titanate Nuclear Waste Ceramics. Journal of the American Ceramic Society, 1990, 73, 1201-1207.	3.8	15
51	Room temperature synthesis of Ti-SBA-15 from silatrane and titanium-glycolate and its catalytic performance towards styrene epoxidation. Journal of Sol-Gel Science and Technology, 2011, 57, 221-228.	2.4	14
52	Structure and Thermal Expansion of Calciumâ€“Thorium Apatite, [Ca₄]^F[Ca₂Th₄]^T[(SiO₄)₆]O₂. Inorganic Chemistry, 2015, 54, 11356-11361.	4.6	14
53	Preparation of highly ordered Fe-SBA-1 and Ti-SBA-1 cubic mesoporous silica via sol-gel processing of silatrane. Materials Letters, 2008, 62, 4545-4548.	2.6	13
54	Ethanol dehydration activity on hydrothermally stable LaPxOy catalysts synthesized using CTAB template. Journal of Porous Materials, 2012, 19, 423-431.	2.6	13

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55	Facile synthesis of magnetic metal (Mn, Co, Fe, and Ni) oxide nanosheets. Materials Letters, 2010, 64, 1095-1098.	2.6	12
56	Evolution of local atomic structure in a melt-spun Ni₂₅Ti₅₀Cu₂₅shape memory alloy during crystallization. Philosophical Magazine, 2011, 91, 404-420.	1.6	10
57	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. Journal of Crystal Growth, 2011, 333, 70-73.	1.5	9
58	A novel room temperature synthesis of mesoporous SBA-15 from silatrane. Journal of Porous Materials, 2011, 18, 167-175.	2.6	9
59	Nanoscale phase separation in quasi-uniaxial and biaxial strained multiferroic thin films. Applied Physics Letters, 2011, 99, 132905.	3.3	9
60	Self-Assembled VO₂ Mesh Film-Based Resistance Switches with High Transparency and Abrupt ON/OFF Ratio. ACS Omega, 2019, 4, 19635-19640.	3.5	9
61	Nonstoichiometry, amorphicity and microstructural evolution during phase transformations of photocatalytic titania powders. Journal of Applied Crystallography, 2009, 42, 917-924.	4.5	8
62	Orientation of silicon nanowires grown from nickel-coated silicon wafers. Journal of Crystal Growth, 2014, 404, 26-33.	1.5	6
63	Synthesis and crystal chemical evolution of fresnoite powders. Journal of Solid State Chemistry, 2012, 187, 165-171.	2.9	5
64	Synthesis and Crystal Structure Characterization of Oxysilicate Apatites for Stabilization of Sr and Rareâ€Earth Elements. Journal of the American Ceramic Society, 2016, 99, 1761-1768.	3.8	4
65	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. Journal of Solid State Chemistry, 2013, 203, 291-296.	2.9	3
66	Composition-tuned MAPbBr3 nanoparticles with addition of Cs+ cations for improved photoluminescence. RSC Advances, 2021, 11, 24137-24143.	3.6	3
67	Synthesis and Characterization of Apatite Wasteforms Using Simulated Radioactive Liquid Waste. Chemistry Letters, 2019, 48, 881-884.	1.3	2
68	The effect of organic cation dynamics on the optical properties in (PEA)2(MA)[Pb2I7] perovskite dimorphs. Journal of Materials Chemistry C, 2021, 9, 17050-17060.	5.5	2
69	A New Apatite Nomenclature. Rocks and Minerals, 2010, 85, 204-205.	0.1	1