

Timothy J White

List of Publications by Year in descending order

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3,867
citations

147801

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71
times ranked

5831
citing authors

#	ARTICLE	IF	CITATIONS
1	Elucidation of the structural and optical properties of metal cation (Na ⁺ , K ⁺ , Tl ⁺) perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3562-3578.	10.3	18
2	Composition-tuned MAPbBr ₃ nanoparticles with addition of Cs ⁺ cations for improved photoluminescence. <i>RSC Advances</i> , 2021, 11, 24137-24143.	3.6	3
3	Room temperature synthesis of low-dimensional rubidium copper halide colloidal nanocrystals with near unity photoluminescence quantum yield. <i>Nanoscale</i> , 2021, 13, 59-65.	5.6	20
4	The effect of organic cation dynamics on the optical properties in (PEA) ₂ (MA)[PbI ₂] perovskite dimorphs. <i>Journal of Materials Chemistry C</i> , 2021, 9, 17050-17060.	5.5	2
5	Performance Enhanced Light-Emitting Diodes Fabricated from Nanocrystalline CsPbBr ₃ with In Situ Zn ²⁺ Addition. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4002-4011.	4.3	33
6	Investigating the structure–function relationship in triple cation perovskite nanocrystals for light-emitting diode applications. <i>Journal of Materials Chemistry C</i> , 2020, 8, 11805-11821.	5.5	27
7	Crystal Chemistry and Antibacterial Properties of Cupriferous Hydroxyapatite. <i>Materials</i> , 2019, 12, 1814.	2.9	27
8	Synthesis and Characterization of Apatite Wasteforms Using Simulated Radioactive Liquid Waste. <i>Chemistry Letters</i> , 2019, 48, 881-884.	1.3	2
9	Cesium Copper Iodide Tailored Nanoplates and Nanorods for Blue, Yellow, and White Emission. <i>Chemistry of Materials</i> , 2019, 31, 9003-9011.	6.7	111
10	Adaptive Thermochromic Windows from Active Plasmonic Elastomers. <i>Joule</i> , 2019, 3, 858-871.	24.0	128
11	Self-Assembled VO ₂ Mesh Film-Based Resistance Switches with High Transparency and Abrupt ON/OFF Ratio. <i>ACS Omega</i> , 2019, 4, 19635-19640.	3.5	9
12	Pressure-Engineered Structural and Optical Properties of Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbI ₄ Perovskite Exfoliated nm-Thin Flakes. <i>Journal of the American Chemical Society</i> , 2019, 141, 1235-1241.	13.7	95
13	High-Pressure-Induced Comminution and Recrystallization of CH ₃ NH ₃ PbBr ₃ Nanocrystals as Large Thin Nanoplates. <i>Advanced Materials</i> , 2018, 30, 1705017.	21.0	89
14	Phase Transitions of Formamidinium Lead Iodide Perovskite under Pressure. <i>Journal of the American Chemical Society</i> , 2018, 140, 13952-13957.	13.7	78
15	Vanadium Dioxide: The Multistimuli Responsive Material and Its Applications. <i>Small</i> , 2018, 14, e1802025.	10.0	167
16	Numerical investigation of supercritical water flow in a vertical pipe under axially non-uniform heat flux. <i>Progress in Nuclear Energy</i> , 2017, 97, 11-25.	2.9	22
17	Hydrogen-Bonding Evolution during the Polymorphic Transformations in CH ₃ NH ₃ PbBr ₃ : Experiment and Theory. <i>Chemistry of Materials</i> , 2017, 29, 5974-5981.	6.7	80
18	Towards AI-powered personalization in MOOC learning. <i>Npj Science of Learning</i> , 2017, 2, 15.	2.8	59

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19	Synthesis and Crystal Structure Characterization of Oxysilicate Apatites for Stabilization of Sr and Rare-Earth Elements. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1761-1768.	3.8	4
20	Two-Dimensional SiO ₂ /VO ₂ Photonic Crystals with Statically Visible and Dynamically Infrared Modulated for Smart Window Deployment. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33112-33120.	8.0	153
21	Pressure-Dependent Polymorphism and Band-Gap Tuning of Methylammonium Lead Iodide Perovskite. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6540-6544.	13.8	157
22	Correlation of Local Structure and Diffusion Pathways in the Modulated Anisotropic Oxide Ion Conductor CeNbO _{4.25} . <i>Journal of the American Chemical Society</i> , 2016, 138, 1273-1279.	13.7	34
23	Structure and Thermal Expansion of Calcium-Thorium Apatite, [Ca ₄ F][Ca ₂ Th ₄] ^T [(SiO ₄) ₆](OH) ₂ . <i>Inorganic Chemistry</i> , 2015, 54, 11356-11361.	13.7	34
24	Small and Medium sized Reactors (SMR): A review of technology. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 44, 643-656.	16.4	131
25	Orientation of silicon nanowires grown from nickel-coated silicon wafers. <i>Journal of Crystal Growth</i> , 2014, 404, 26-33.	1.5	6
26	Fergusonite-type CeNbO ₄ : Single crystal growth, symmetry revision and conductivity. <i>Journal of Solid State Chemistry</i> , 2013, 204, 291-297.	2.9	25
27	Observation of atomic scale compositional and displacive modulations in incommensurate melilite electrolytes. <i>Journal of Solid State Chemistry</i> , 2013, 203, 291-296.	2.9	3
28	Crystal Chemistry of Melilite [CaLa] ₂ [Ga] ₂ [Ga ₂ O ₇] ₂ : a Five Dimensional Solid Electrolyte. <i>Inorganic Chemistry</i> , 2012, 51, 5941-5949.	4.0	16
29	Structure and Surface Reactivity of WO ₄ ²⁻ , SO ₄ ²⁻ , PO ₄ ³⁻ Modified Ca-Hydroxyapatite Catalysts and Their Activity in Ethanol Conversion. <i>Journal of Physical Chemistry C</i> , 2012, 116, 18736-18745.	3.1	16
30	Ethanol dehydration activity on hydrothermally stable LaP _x O _y catalysts synthesized using CTAB template. <i>Journal of Porous Materials</i> , 2012, 19, 423-431.	2.6	13
31	Synthesis and crystal chemical evolution of fresnoite powders. <i>Journal of Solid State Chemistry</i> , 2012, 187, 165-171.	2.9	5
32	The Crystal Chemistry of Ca ₁₀ (SiO ₄) ₃ (SO ₄) ₃ Cl ₂ ·2H ₂ O. <i>Inorganic Chemistry</i> , 2011, 50, 12641-12650.	2.6	16
33	Single crystal growth of apatite-type Al-doped neodymium silicates by the floating zone method. <i>Journal of Crystal Growth</i> , 2011, 333, 70-73.	1.5	9
34	A novel room temperature synthesis of mesoporous SBA-15 from silatrane. <i>Journal of Porous Materials</i> , 2011, 18, 167-175.	2.6	9
35	Room temperature synthesis of Ti-SBA-15 from silatrane and titanium-glycolate and its catalytic performance towards styrene epoxidation. <i>Journal of Sol-Gel Science and Technology</i> , 2011, 57, 221-228.	2.4	14
36	Low-Temperature Growth of SnO ₂ Nanorod Arrays and Tunable n-p-n Sensing Response of a ZnO/SnO ₂ Heterojunction for Exclusive Hydrogen Sensors. <i>Advanced Functional Materials</i> , 2011, 21, 2680-2686.	14.9	218

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37	Nanoscale phase separation in quasi-uniaxial and biaxial strained multiferroic thin films. Applied Physics Letters, 2011, 99, 132905.	3.3	9
38	Evolution of local atomic structure in a melt-spun Ni ₂₅ Ti ₅₀ Cu ₂₅ shape memory alloy during crystallization. Philosophical Magazine, 2011, 91, 404-420.	1.6	10
39	Facile synthesis of magnetic metal (Mn, Co, Fe, and Ni) oxide nanosheets. Materials Letters, 2010, 64, 1095-1098.	2.6	12
40	Biphasic Pd~Au Alloy Catalyst for Low-Temperature CO Oxidation. Journal of the American Chemical Society, 2010, 132, 10398-10406.	13.7	363
41	Nomenclature of the apatite supergroup minerals. European Journal of Mineralogy, 2010, 22, 163-179.	1.3	277
42	Hydroxyapatite Foam as a Catalyst for Formaldehyde Combustion at Room Temperature. Journal of the American Chemical Society, 2010, 132, 13172-13173.	13.7	110
43	A New Apatite Nomenclature. Rocks and Minerals, 2010, 85, 204-205.	0.1	1
44	Nonstoichiometry, amorphicity and microstructural evolution during phase transformations of photocatalytic titania powders. Journal of Applied Crystallography, 2009, 42, 917-924.	4.5	8
45	Styrene oxidation with H ₂ O ₂ over Fe- and Ti-SBA-1 mesoporous silica. Catalysis Communications, 2009, 10, 1070-1073.	3.3	29
46	Photogenerating work from polymers. Materials Today, 2008, 11, 34-42.	14.2	128
47	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
48	Removing Organic Compounds from Aqueous Medium via Wet Peroxidation by Gold Catalysts. Environmental Science & Technology, 2008, 42, 908-912.	10.0	85
49	Synthesis of Contiguous Silica~Gold Core~Shell Structures: Critical Parameters and Processes. Langmuir, 2008, 24, 5109-5112.	3.5	73
50	Monodisperse ZnO Nanodots: Synthesis, Characterization, and Optoelectronic Properties. Journal of Physical Chemistry C, 2007, 111, 9757-9760.	3.1	28
51	Y ₂ O ₃ :Tb Nanocrystals Self-Assembly into Nanorods by Oriented Attachment Mechanism. Journal of Physical Chemistry C, 2007, 111, 7893-7897.	3.1	57
52	Temperature-Triggered Self-Assembly of ZnO: from Nanocrystals to Nanorods to Tablets. Inorganic Chemistry, 2007, 46, 11031-11035.	4.0	25
53	One-Step Synthesis of Highly Dispersed Gold Nanocrystals on Silica Spheres. Langmuir, 2007, 23, 11421-11424.	3.5	35
54	Au Promotional Effects on the Synthesis of H ₂ O ₂ Directly from H ₂ and O ₂ on Supported Pd~Au Alloy Catalysts. Journal of Physical Chemistry C, 2007, 111, 8410-8413.	3.1	121

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55	Model Apatite Systems for the Stabilization of Toxic Metals: II, Cation and Metalloid Substitutions in Chlorapatites. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1253-1260.	3.8	31
56	Controlling the crystallinity and nonlinear optical properties of transparent TiO ₂ –PMMA nanohybrids. <i>Journal of Materials Chemistry</i> , 2004, 14, 2978-2987.	6.7	144
57	Transparent nanohybrids of nanocrystalline TiO ₂ in PMMA with unique nonlinear optical behavior. <i>Journal of Materials Chemistry</i> , 2003, 13, 1475.	6.7	144
58	Model Apatite Systems for the Stabilization of Toxic Metals: I, Calcium Lead Vanadate. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2515-2522.	3.8	35
59	alpha-Decay Damage Effects in Curium-Doped Titanate Ceramic Containing Sodium-Free High-Level Nuclear Waste. <i>Journal of the American Ceramic Society</i> , 1994, 77, 2255-2264.	3.8	35
60	Aging Effects on Curium-Doped Titanate Ceramic Containing Sodium-Bearing High-Level Nuclear Waste. <i>Journal of the American Ceramic Society</i> , 1992, 75, 392-400.	3.8	35
61	Interdependence of Phase Chemistry, Microstructure, and Oxygen Fugacity in Titanate Nuclear Waste Ceramics. <i>Journal of the American Ceramic Society</i> , 1990, 73, 1201-1207.	3.8	15
62	Self-Irradiation Damage of a Curium-Doped Titanate Ceramic Containing Sodium-Rich High-Level Nuclear Waste. <i>Journal of the American Ceramic Society</i> , 1990, 73, 3433-3441.	3.8	17
63	Processing Impurities as Phase Assemblage Modifiers in Titanate Nuclear Waste Ceramics. <i>Journal of the American Ceramic Society</i> , 1990, 73, 217-225.	3.8	19
64	Incorporation of Transuranic Elements in Titanate Nuclear Waste Ceramics. <i>Journal of the American Ceramic Society</i> , 1990, 73, 370-378.	3.8	43
65	Titanate Ceramics for the Stabilization of Partially Reprocessed Nuclear Fuel Elements. <i>Journal of the American Ceramic Society</i> , 1989, 72, 404-414.	3.8	19
66	Radiophase Development in Hot-Pressed Alkoxide-Derived Titanate Ceramics for Nuclear Waste Stabilization. <i>Journal of the American Ceramic Society</i> , 1989, 72, 1055-1059.	3.8	19
67	Titanate Ceramics for the Immobilization of Sodium-Bearing High-Level Nuclear Waste. <i>Journal of the American Ceramic Society</i> , 1988, 71, 678-688.	3.8	51
68	Hydrothermal Dissolution of Perovskite: Implications for Synroc Formulation. <i>Journal of the American Ceramic Society</i> , 1987, 70, C-144-C-146.	3.8	35
69	Radwaste Immobilization by Structural Modification?the Crystallochemical Properties of SYNROC, a Titanate Ceramic. <i>Angewandte Chemie International Edition in English</i> , 1985, 24, 357-365.	4.4	28