Troy D Manning

List of Publications by Year
in descending order

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51 papers	2,317 citations	257450 24 h-index	214800 47 g-index
58 all docs	58 docs citations	58 times ranked	3398 citing authors

#	Article	IF	Citations
1	Intelligent Window Coatings:Â Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide. Chemistry of Materials, 2004, 16, 744-749.	6.7	363
2	Intelligent window coatings: atmospheric pressure chemical vapour deposition of vanadium oxides. Journal of Materials Chemistry, 2002, 12, 2936-2939.	6.7	220
3	Intelligent Thermochromic Windows. Journal of Chemical Education, 2006, 83, 393.	2.3	162
4	Atmospheric pressure chemical vapour deposition of tungsten doped vanadium(iv) oxide from VOCl3, water and WCl6. Journal of Materials Chemistry, 2004, 14, 2554.	6.7	119
5	AgBiI₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. Chemistry of Materials, 2017, 29, 1538-1549.	6.7	102
6	Shape Selectivity by Guestâ€Ðriven Restructuring of a Porous Material. Angewandte Chemie - International Edition, 2014, 53, 4592-4596.	13.8	98
7	APCVD of thermochromic vanadium dioxide thin filmsâ€"solid solutions V2â€"xMxO2 (M = Mo, Nb) or composites VO2 : SnO2. Journal of Materials Chemistry, 2005, 15, 4560.	6.7	93
8	Improved electrical mobility in highly epitaxial La:BaSnO3 films on SmScO3(110) substrates. Applied Physics Letters, 2014, 105, .	3.3	87
9	Vanadium(IV) oxide thin films on glass and silicon from the atmospheric pressure chemical vapour deposition reaction of VOCl3 and water. Polyhedron, 2004, 23, 3087-3095.	2.2	73
10	Catalytic Response and Stability of Nickel/Alumina for the Hydrogenation of 5â€Hydroxymethylfurfural in Water. ChemSusChem, 2016, 9, 521-531.	6.8	72
11	Selective conversion of 5-hydroxymethylfurfural to cyclopentanone derivatives over Cuâ€"Al₂O₃ and Coâ€"Al₂O₃ catalysts in water. Green Chemistry, 2017, 19, 1701-1713.	9.0	72
12	Nano-structured rhodium doped SrTiO3â€"Visible light activated photocatalyst for water decontamination. Applied Catalysis B: Environmental, 2017, 206, 547-555.	20.2	65
13	Deposition of HfO2, Gd2O3 and PrOx by Liquid Injection ALD Techniques. Chemical Vapor Deposition, 2005, 11, 159-169.	1.3	61
14	Highly Absorbing Lead-Free Semiconductor Cu₂AgBiI₆ for Photovoltaic Applications from the Quaternary Culâ€"Aglâ€"Bil₃ Phase Space. Journal of the American Chemical Society, 2021, 143, 3983-3992.	13.7	59
15	Atmospheric pressure chemical vapour deposition of VO2 and VO2/TiO2 films from the reaction of VOCl3, TiCl4 and water. Journal of Materials Chemistry, 2004, 14, 1190.	6.7	58
16	Interface control by chemical and dimensional matching in an oxide heterostructure. Nature Chemistry, 2016, 8, 347-353.	13.6	53
17	Thermochromic Coatings for Intelligent Architectural Glazing. Journal of Nano Research, 0, 2, 1-20.	0.8	46
18	Formation of a new (1T) trigonal NbS2 polytype via atmospheric pressure chemical vapour depositionElectronic supplementary information (ESI) available: structure refinements of the NbS2 films and crystallographic data in CIF format. See http://www.rsc.org/suppdata/jm/b3/b315782m/. Journal of Materials Chemistry, 2004, 14, 290.	6.7	42

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19	The preparation of large surface area lanthanum based perovskite supports for AuPt nanoparticles: tuning the glycerol oxidation reaction pathway by switching the perovskite B site. Faraday Discussions, 2016, 188, 427-450.	3.2	41
20	Selective conversion of 5-hydroxymethylfurfural to diketone derivatives over Beta zeolite-supported Pd catalysts in water. Journal of Catalysis, 2019, 375, 224-233.	6.2	31
21	Engineered spatial inversion symmetry breaking in an oxide heterostructure built from isosymmetric room-temperature magnetically ordered components. Chemical Science, 2014, 5, 1599-1610.	7.4	30
22	Chemical Control of Correlated Metals as Transparent Conductors. Advanced Functional Materials, 2019, 29, 1808609.	14.9	30
23	Photocatalytic Water Oxidation by a Pyrochlore Oxide upon Irradiation with Visible Light: Rhodium Substitution Into Yttrium Titanate. Angewandte Chemie - International Edition, 2014, 53, 14480-14484.	13.8	29
24	Modular Design via Multiple Anion Chemistry of the High Mobility van der Waals Semiconductor Bi₄O₄SeCl₂. Journal of the American Chemical Society, 2020, 142, 847-856.	13.7	29
25	Lithium Transport in Li4.4M0.4Mâ€²0.6S4 (M = Al3+, Ga3+, and Mâ€² = Ge4+, Sn4+): Combined Crystallographic, Conductivity, Solid State NMR, and Computational Studies. Chemistry of Materials, 2018, 30, 7183-7200.	6.7	28
26	High-performance protonic ceramic fuel cell cathode using protophilic mixed ion and electron conducting material. Journal of Materials Chemistry A, 2022, 10, 2559-2566.	10.3	25
27	Chemical Vapor Deposition of Niobium Disulfide Thin Films. European Journal of Inorganic Chemistry, 2004, 2004, 4470-4476.	2.0	23
28	Deposition of LaAlO3 films by liquid injection MOCVD using a new [Laâ€“Al] single source alkoxide precursor. Journal of Materials Chemistry, 2005, 15, 3384.	6.7	22
29	Composite thermochromic thin films: (TiO2)â€“(VO2) prepared from titanium isopropoxide, VOCl3 and water. Polyhedron, 2006, 25, 334-338.	2.2	20
30	Bi₄O₄Cu_{1.7}Se_{2.7}Cl_{0.3}: Intergrowth of BiOCuSe and Bi₂O₂Se Stabilized by the Addition of a Third Anion. Journal of the American Chemical Society, 2017, 139, 15568-15571.	13.7	17
31	Bi_{2+2n}O_{2+2n}Cu_{2â^'Î´}Se_{2+nâ€“Î´}X_{Î´} (X = Cl, Br): A Three-Anion Homologous Series. Inorganic Chemistry, 2018, 57, 12489-12500.	4.0	15
32	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the Culâ€“Aglâ€“BiI₃ Phase Space by Synthesis of 3D CuAgBiI₅. Inorganic Chemistry, 2021, 60, 18154-18167.	4.0	15
33	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie - International Edition, 2021, 60, 16457-16465.	13.8	13
34	Low temperature deposition of crystalline chromium phosphide films using dual-source atmospheric pressure chemical vapour deposition. Applied Surface Science, 2004, 233, 24-28.	6.1	12
35	Reactivity of Solid Rubrene with Potassium: Competition between Intercalation and Molecular Decomposition. Journal of the American Chemical Society, 2018, 140, 18162-18172.	13.7	12
36	One class classification as a practical approach for accelerating Ï€â€“Ï€ co-crystal discovery. Chemical Science, 2021, 12, 1702-1719.	7.4	12

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37	NbS2 thin films by atmospheric pressure chemical vapour deposition and the formation of a new 1T polytype. Thin Solid Films, 2004, 469-470, 495-499.	1.8	11
38	Precursors for pâ€Type Nickel Oxide: Atmosphericâ€Pressure Metalâ€“Organic Chemicalâ€Vapour Deposition (MOCVD) of Nickel Oxide Thin Films with High Work Functions. European Journal of Inorganic Chemistry, 2017, 2017, 1868-1876.	2.0	8
39	Band Structure Engineering of Bi₄O₄SeCl₂ for Thermoelectric Applications. ACS Organic & Inorganic Au, 2022, 2, 405-414.	4.0	7
40	Single-source AACVD of composite cobalt-silicon oxide thin films. Inorganica Chimica Acta, 2014, 422, 47-56.	2.4	6
41	CO₂reduction reactions: general discussion. Faraday Discussions, 2015, 183, 261-290.	3.2	6
42	Computational Prediction and Experimental Realization of p-Type Carriers in the Wide-Band-Gap Oxide SrZn_{1â€“x}Li_xO₂. Inorganic Chemistry, 2018, 57, 11874-11883.	4.0	6
43	Intelligent Window Coatings: Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide.. ChemInform, 2004, 35, no.	0.0	4
44	High-throughput discovery of Hf promotion on the stabilisation of hcp Co and Fischer-Tropsch activity. Journal of Catalysis, 2021, 396, 315-323.	6.2	3
45	Enhanced Longâ€Term Cathode Stability by Tuning Interfacial Nanocomposite for Intermediate Temperature Solid Oxide Fuel Cells. Advanced Materials Interfaces, 2022, 9, .	3.7	3
46	Cation Disorder and Large Tetragonal Supercell Ordering in the Li-Rich Argyrodite Li₇Zn_{0.5}SiS₆. Chemistry of Materials, 2022, 34, 4073-4087.	6.7	3
47	Detection and Crystal Structure of Hydrogenated Bipentacene as an Intermediate in Thermally Induced Pentacene Oligomerization. Journal of Organic Chemistry, 2019, 84, 8481-8486.	3.2	2
48	Predicting spinel solid solutions using a random atom substitution method. Physical Chemistry Chemical Physics, 0, , .	2.8	2
49	Crystal Structure and Stoichiometric Composition of Potassium-Intercalated Tetracene. Inorganic Chemistry, 2020, 59, 12545-12551.	4.0	1
50	Dual-Source Atmospheric Pressure CVD of Amorphous Molybdenum Phosphide Films on Glass Using Molybdenum(V) Chloride and Cyclohexylphosphine.. ChemInform, 2003, 34, no.	0.0	0
51	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie, 2021, 133, 16593-16601.	2.0	0