Troy D Manning

List of Publications by Year
in descending order

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	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
2	Enhanced Longâ€Term Cathode Stability by Tuning Interfacial Nanocomposite for Intermediate Temperature Solid Oxide Fuel Cells. Advanced Materials Interfaces, 2022, 9, .	3.7	3
3	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
4	Band Structure Engineering of Bi₄O₄SeCl₂ for Thermoelectric Applications. ACS Organic & Inorganic Au, 2022, 2, 405-414.	4.0	7
5	One class classification as a practical approach for accelerating Ï€â€“Ï€ co-crystal discovery. Chemical Science, 2021, 12, 1702-1719.	7.4	12
6	Highly Absorbing Lead-Free Semiconductor Cu₂AgBiI₆ for Photovoltaic Applications from the Quaternary CuIâ€“AgIâ€“BiI₃ Phase Space. Journal of the American Chemical Society, 2021, 143, 3983-3992.	13.7	59
7	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
8	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
9	Discovery of a Low Thermal Conductivity Oxide Guided by Probe Structure Prediction and Machine Learning. Angewandte Chemie, 2021, 133, 16593-16601.	2.0	0
10	Chemical Control of the Dimensionality of the Octahedral Network of Solar Absorbers from the CuIâ€“AgIâ€“BiI₃ Phase Space by Synthesis of 3D CuAgBiI₅. Inorganic Chemistry, 2021, 60, 18154-18167.	4.0	15
11	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
12	Crystal Structure and Stoichiometric Composition of Potassium-Intercalated Tetracene. Inorganic Chemistry, 2020, 59, 12545-12551.	4.0	1
13	Chemical Control of Correlated Metals as Transparent Conductors. Advanced Functional Materials, 2019, 29, 1808609.	14.9	30
14	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
15	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
16	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
17	Bi_{2+2<i>n</i>}O_{2+2<i>n</i>}Cu_{2â^'Î´}Se_{2+<i>n</i>â€“Î´}X_{Î´} (X = Cl, Br): A Three-Anion Homologous Series. Inorganic Chemistry, 2018, 57, 12489-12500.	4.0	15
18	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

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19	Computational Prediction and Experimental Realization of p-Type Carriers in the Wide-Band-Gap Oxide SrZn_{1â€“<i>x</i>}Li_{<i>x</i>}O₂. Inorganic Chemistry, 2018, 57, 11874-11883.	4.0	6
20	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
21	AgBiI₄ as a Lead-Free Solar Absorber with Potential Application in Photovoltaics. Chemistry of Materials, 2017, 29, 1538-1549.	6.7	102
22	Nano-structured rhodium doped SrTiO3â€“Visible light activated photocatalyst for water decontamination. Applied Catalysis B: Environmental, 2017, 206, 547-555.	20.2	65
23	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
24	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
25	Catalytic Response and Stability of Nickel/Alumina for the Hydrogenation of 5â€Hydroxymethylfurfural in Water. ChemSusChem, 2016, 9, 521-531.	6.8	72
26	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
27	Interface control by chemical and dimensional matching in an oxide heterostructure. Nature Chemistry, 2016, 8, 347-353.	13.6	53
28	CO₂reduction reactions: general discussion. Faraday Discussions, 2015, 183, 261-290.	3.2	6
29	Improved electrical mobility in highly epitaxial La:BaSnO3 films on SmScO3(110) substrates. Applied Physics Letters, 2014, 105, .	3.3	87
30	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
31	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
32	Shape Selectivity by Guestâ€Driven Restructuring of a Porous Material. Angewandte Chemie - International Edition, 2014, 53, 4592-4596.	13.8	98
33	Single-source AACVD of composite cobalt-silicon oxide thin films. Inorganica Chimica Acta, 2014, 422, 47-56.	2.4	6
34	Intelligent Thermochromic Windows. Journal of Chemical Education, 2006, 83, 393.	2.3	162
35	Composite thermochromic thin films: (TiO2)â€“(VO2) prepared from titanium isopropoxide, VOCl3 and water. Polyhedron, 2006, 25, 334-338.	2.2	20
36	Deposition of HfO2, Gd2O3 and PrOx by Liquid Injection ALD Techniques. Chemical Vapor Deposition, 2005, 11, 159-169.	1.3	61

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37	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
38	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
39	Chemical Vapor Deposition of Niobium Disulfide Thin Films. European Journal of Inorganic Chemistry, 2004, 2004, 4470-4476.	2.0	23
40	Intelligent Window Coatings: Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide.. ChemInform, 2004, 35, no.	0.0	4
41	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
42	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
43	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
44	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
45	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
46	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
47	Intelligent Window Coatings:Â Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide. Chemistry of Materials, 2004, 16, 744-749.	6.7	363
48	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
49	Intelligent window coatings: atmospheric pressure chemical vapour deposition of vanadium oxides. Journal of Materials Chemistry, 2002, 12, 2936-2939.	6.7	220
50	Thermochromic Coatings for Intelligent Architectural Glazing. Journal of Nano Research, 0, 2, 1-20.	0.8	46
51	Predicting spinel solid solutions using a random atom substitution method. Physical Chemistry Chemical Physics, 0, , .	2.8	2