

Cedric Tassel

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	1,736 citations	22 h-index	38 g-index
89 ext. papers	2,056 ext. citations	8.8 avg, IF	4.33 L-index

#	Paper	IF	Citations
78	High energy density rechargeable magnesium battery using earth-abundant and non-toxic elements. <i>Scientific Reports</i> , 2014 , 4, 5622	4.9	230
77	Glass Formation of a Coordination Polymer Crystal for Enhanced Proton Conductivity and Material Flexibility. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5195-200	16.4	83
76	CaFeO ₂ : a new type of layered structure with iron in a distorted square planar coordination. <i>Journal of the American Chemical Society</i> , 2009 , 131, 221-9	16.4	80
75	Direct synthesis of chromium perovskite oxyhydride with a high magnetic-transition temperature. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10377-80	16.4	72
74	Oxyhydrides of (Ca,Sr,Ba)TiO ₃ perovskite solid solutions. <i>Inorganic Chemistry</i> , 2012 , 51, 11371-6	5.1	65
73	Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801772	21.8	65
72	MgFePO ₄ F as a feasible cathode material for magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11578-11582	13	59
71	Room-temperature polar ferromagnet ScFeO ₃ transformed from a high-pressure orthorhombic perovskite phase. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15291-9	16.4	56
70	Hydride in BaTiO _{2.5} H _{0.5} : A Labile Ligand in Solid State Chemistry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15315-21	16.4	54
69	Stability of the infinite layer structure with iron square planar coordination. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3764-5	16.4	49
68	Relationship between Phase Transition Involving Cationic Exchange and Charge Discharge Rate in Li ₂ FeSiO ₄ . <i>Chemistry of Materials</i> , 2014 , 26, 1380-1384	9.6	44
67	Crystal Structural Changes and Charge Compensation Mechanism during Two Lithium Extraction/Insertion between Li ₂ FeSiO ₄ and FeSiO ₄ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10206-10211	13.8	43
66	Fe-site substitution effect on the structural and magnetic properties in SrFeO ₂ . <i>Inorganic Chemistry</i> , 2011 , 50, 3988-95	5.1	42
65	Electrical Properties of Epitaxial Thin Films of Oxyhydrides ATiO _{3-x} H _x (A = Ba and Sr). <i>Chemistry of Materials</i> , 2015 , 27, 6354-6359	9.6	37
64	Sr ₂ FeO ₃ with stacked infinite chains of FeO ₄ square planes. <i>Inorganic Chemistry</i> , 2013 , 52, 6096-102	5.1	33
63	(Sr _{1-x} Ba _x)FeO ₂ (0.4 ≤ x ≤ 1): a new oxygen-deficient perovskite structure. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11444-54	16.4	28
62	Pressure-induced structural, magnetic, and transport transitions in the two-legged ladder Sr ₃ Fe ₂ O ₅ . <i>Journal of the American Chemical Society</i> , 2011 , 133, 6036-43	16.4	27

61	Pressure-Stabilized Cubic Perovskite Oxyhydride BaScOH. <i>Inorganic Chemistry</i> , 2017 , 56, 4840-4845	5.1	26
60	New chemistry of transition metal oxyhydrides. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 905-918	7.1	24
59	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9667-70	16.4	23
58	Synthesis and thermal stability of the solid solution AFeO ₂ (A = Ba, Sr, Ca). <i>Inorganic Chemistry</i> , 2010 , 49, 5957-62	5.1	23
57	ZnTaON: Stabilized High-Temperature LiNbO ₃ -type Structure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15950-15955	16.4	22
56	MnTaO ₂ N: polar LiNbO ₃ -type oxynitride with a helical spin order. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 516-21	16.4	22
55	Square planar coordinate iron oxides. <i>Chemical Society Reviews</i> , 2012 , 41, 2025-35	58.5	22
54	Sillite-Aurivillius-related Oxychloride Bi ₆ NbWO ₁₄ Cl as a Stable O ₂ -evolving Photocatalyst in Z-scheme Water Splitting under Visible Light. <i>Chemistry Letters</i> , 2017 , 46, 583-586	1.7	21
53	Exploring Structures and Properties through Anion Chemistry. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 1349-1357	5.1	21
52	Selective Hydride Occupation in BaVO ₃ ·H _x (0.3 ≤ x ≤ 0.8) with Face- and Corner-Shared Octahedra. <i>Chemistry of Materials</i> , 2018 , 30, 1566-1574	9.6	20
51	LaPd ₂ Sb ₂ : A pnictide superconductor with CaBe ₂ Ge ₂ type structure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 151-154	5.7	20
50	On Hydride Diffusion in Transition Metal Perovskite Oxyhydrides Investigated via Deuterium Exchange. <i>Chemistry of Materials</i> , 2017 , 29, 8187-8194	9.6	20
49	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2491-2499	16.4	20
48	Reduction of Ln ₂ Ti ₂ O ₇ Layered Perovskites: A Survey of the Anionic Lattice, Electronic Features, and Potentials. <i>Chemistry of Materials</i> , 2017 , 29, 1047-1057	9.6	19
47	Hydride-based antiperovskites with soft anionic sublattices as fast alkali ionic conductors. <i>Nature Communications</i> , 2021 , 12, 201	17.4	19
46	Glass Formation of a Coordination Polymer Crystal for Enhanced Proton Conductivity and Material Flexibility. <i>Angewandte Chemie</i> , 2016 , 128, 5281-5286	3.6	17
45	Substrate-induced anion rearrangement in epitaxial thin films of LaSrCoO ₄ ·H _x . <i>CrystEngComm</i> , 2014 , 16, 9669-9674	3.3	17
44	Direct Synthesis of Chromium Perovskite Oxyhydride with a High Magnetic-Transition Temperature. <i>Angewandte Chemie</i> , 2014 , 126, 10545-10548	3.6	17

43	Pressure-induced amorphization of a dense coordination polymer and its impact on proton conductivity. <i>APL Materials</i> , 2014 , 2, 124401	5.7	16
42	High-Pressure Synthesis of A NiO Ag Se (A=Sr, Ba) with a High-Spin Ni in Square-Planar Coordination. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 756-759	16.4	16
41	AgFeOF: A Fluorine-Rich Perovskite Oxyfluoride. <i>Inorganic Chemistry</i> , 2018 , 57, 6686-6691	5.1	15
40	Gas phase contributions to topochemical hydride reduction reactions. <i>Journal of Solid State Chemistry</i> , 2013 , 207, 190-193	3.3	15
39	Hydride-Enhanced CO ₂ Methanation: Water-Stable BaTiO _{2.4} H _{0.6} as a New Support. <i>Advanced Energy Materials</i> , 2018 , 8, 1800800	21.8	15
38	Random fan-out state induced by site-random interlayer couplings. <i>Physical Review B</i> , 2011 , 84,	3.3	14
37	High-Pressure Synthesis of Fully Occupied Tetragonal and Cubic Tungsten Bronze Oxides. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5770-5773	16.4	13
36	High-Pressure Polymorphs of LaHO with Anion Coordination Reversal. <i>Journal of the American Chemical Society</i> , 2019 , 141, 8717-8720	16.4	13
35	B1-to-B2 structural transitions in rock salt intergrowth structures. <i>Inorganic Chemistry</i> , 2011 , 50, 11787-941	3.1	12
34	Cubic lead perovskite PbMoO ₃ with anomalous metallic behavior. <i>Physical Review B</i> , 2017 , 95,	3.3	10
33	Superconductivity in LaPd ₂ As ₂ with a collapsed 122 structure. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 370-374	5.7	10
32	First single-crystal synthesis and low-temperature structural determination of the quasi-2D quantum spin compound (CuCl)LaNb ₂ O ₇ . <i>Dalton Transactions</i> , 2011 , 40, 4605-13	4.3	10
31	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie</i> , 2016 , 128, 9819-9822	3.6	10
30	Theoretical band structure of the superconducting antiperovskite oxide Sr ₃ SnO. <i>Physica B: Condensed Matter</i> , 2018 , 536, 752-756	2.8	10
29	Local structural change in Li ₂ FeSiO ₄ polyanion cathode material during initial cycling. <i>Solid State Ionics</i> , 2014 , 262, 110-114	3.3	9
28	MnTaO ₂ N: Polar LiNbO ₃ -type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , 2015 , 127, 526-531	5.1	9
27	Impact of Lanthanoid Substitution on the Structural and Physical Properties of an Infinite-Layer Iron Oxide. <i>Inorganic Chemistry</i> , 2016 , 55, 12093-12099	5.1	8
26	High-Pressure Synthesis of A ₂ NiO ₂ Ag ₂ Se ₂ (A=Sr, Ba) with a High-Spin Ni ²⁺ in Square-Planar Coordination. <i>Angewandte Chemie</i> , 2019 , 131, 766-769	3.6	7

25	High-pressure synthesis of the layered iron oxyselenide BaFe ₂ Se ₂ O with strong magnetic anisotropy. <i>Physical Review B</i> , 2016 , 94,	3.3	7
24	Single Crystal Growth of Sillurivillius Perovskite Oxyhalides Bi ₄ NbO ₈ X (X = Cl, Br). <i>Inorganics</i> , 2018 , 6, 41	2.9	7
23	Charge Disproportionation and Magnetoresistivity in a Double Perovskite with Alternate Fe ⁴⁺ (d ⁴) and Mn ⁴⁺ (d ³) Layers. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 2576-2581	2.3	7
22	Observation of Softened Fe Modes in K-Doped BaFe ₂ As ₂ via ⁵⁷ Fe Nuclear Resonant Inelastic Scattering. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 013706	1.5	7
21	Anion ordering enables fast H conduction at low temperatures. <i>Science Advances</i> , 2021 , 7,	14.3	7
20	Mixed alkali-ion transport and storage in atomic-disordered honeycomb layered NaKNiTeO. <i>Nature Communications</i> , 2021 , 12, 4660	17.4	7
19	High-Pressure Synthesis of Non-Stoichiometric Li WO (0.5 ≤ x ≤ 1.0) with LiNbO Structure. <i>Inorganics</i> , 2019 , 7,	2.9	6
18	Rattling Behavior in a Simple Perovskite NaWO. <i>Inorganic Chemistry</i> , 2019 , 58, 6790-6795	5.1	6
17	Site Selectivity of Hydride in Early-Transition-Metal Ruddlesden-Popper Oxyhydrides. <i>Inorganic Chemistry</i> , 2018 , 57, 11058-11067	5.1	5
16	Dehydration of Electrochemically Protonated Oxide: SrCoO with Square Spin Tubes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17517-17525	16.4	4
15	Enhanced Magnetic Interaction by Face-Shared Hydride Anions in 6H-BaCrOH. <i>Inorganic Chemistry</i> , 2021 , 60, 11957-11963	5.1	4
14	High-Pressure Synthesis of Fully Occupied Tetragonal and Cubic Tungsten Bronze Oxides. <i>Angewandte Chemie</i> , 2017 , 129, 5864-5867	3.6	3
13	Alkali-Rich Antiperovskite MFCh (M = Li, Na; Ch = S, Se, Te): The Role of Anions in Phase Stability and Ionic Transport. <i>Journal of the American Chemical Society</i> , 2021 , 143, 10668-10675	16.4	3
12	Metal Hydrides 2017 , 477-520		2
11	From Tetrahedral to Octahedral Iron Coordination: Layer Compression in Topochemically Prepared FeLaTiO. <i>Inorganic Chemistry</i> , 2016 , 55, 11529-11537	5.1	2
10	HfMnSb ₂ : A Metal-Ordered NiAs-type Pnictide with a Conical Spin Order. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9877-80	16.4	2
9	BiOCl (= Ba, Sr, Ca) with Double and Triple Fluorite Layers for Visible-Light Water Splitting. <i>Inorganic Chemistry</i> , 2021 , 60, 15667-15674	5.1	2
8	HfMnSb ₂ : A Metal-Ordered NiAs-type Pnictide with a Conical Spin Order. <i>Angewandte Chemie</i> , 2016 , 128, 10031-10034	3.6	1

7	Formation of PbCl-type AHF (A = Ca, Sr, Ba) with partial anion order at high pressure. <i>Dalton Transactions</i> , 2021 , 50, 8385-8391	4.3	1
6	Spin Frustration in Double Perovskite Oxides and Oxynitrides: Enhanced Frustration in LaMnTaON with a Large Octahedral Rotation. <i>Inorganic Chemistry</i> , 2021 , 60, 8252-8258	5.1	0
5	Pressure-induced structural phase transition in BaHCl. <i>Journal of Solid State Chemistry</i> , 2022 , 312, 123253	3.3	0
4	Novel Iron Oxides with Square Planar Coordination from Low Temperature Synthesis. <i>Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy</i> , 2010 , 57, 181-185	0.2	
3	Phonons and stability of infinite-layer iron oxides SrFeO ₂ and CaFeO ₂ . <i>Solid State Communications</i> , 2016 , 241, 43-55	1.6	
2	Partial cation disorder in Li ₂ MnO ₃ obtained by high-pressure synthesis. <i>Applied Physics Letters</i> , 2022 , 120, 182404	3.4	
1	Kinetic Control of Anion Stoichiometry in Hexagonal BaTiO ₃ . <i>Inorganics</i> , 2022 , 10, 73	2.9	