Joshua D Bocarsly

List of Publications by Year
in descending order

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25 papers	532 citations	623188 14 h-index	642321 23 g-index
25 all docs	25 docs citations	25 times ranked	796 citing authors

#	Article	IF	Citations
1	Magnetocaloric behavior and magnetic ordering in MnPdGa. Physical Review Materials, 2021, 5, .	0.9	4
2	Magnetoentropic mapping and computational modeling of cycloids and skyrmions in the lacunar spinels <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mm mathvariant="normal">S</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mm	0.9	5
3	High blocking temperatures for DyScS endohedral fullerene single-molecule magnets. Chemical Science, 2020, 11, 13129-13136.	3.7	14
4	Multielectron Redox and Insulator-to-Metal Transition upon Lithium Insertion in the Fast-Charging, Wadsley-Roth Phase PNb₉O₂₅. Chemistry of Materials, 2020, 32, 4553-4563.	3.2	50
5	Structural changes upon magnetic ordering in magnetocaloric AlFe2B2. Applied Physics Letters, 2020, 116, .	1.5	16
6	An iron ketimide single-molecule magnet [Fe₄(Nî€CPh₂)₆] with suppressed through-barrier relaxation. Chemical Science, 2020, 11, 4753-4757.	3.7	10
7	Structural coupling and magnetic tuning in Mn2âˆ’<i>x</i>Co<i>x</i>P magnetocalorics for thermomagnetic power generation. APL Materials, 2020, 8, .	2.2	8
8	Computational screening of magnetocaloric alloys. Physical Review Materials, 2020, 4, .	0.9	13
9	Controlling Dzyaloshinskii-Moriya interactions in the skyrmion host candidates FePd1âˆ’xPtxMo3N. Physical Review Materials, 2020, 4, .	0.9	14
10	Evolution of noncollinear magnetism in magnetocaloric MnPtGa. Physical Review Materials, 2020, 4, .	0.9	9
11	Structural evolution and skyrmionic phase diagram of the lacunar spinel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">GaMo</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Se</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2020, 4, .	0.9	19
12	Magnetostructural coupling from competing magnetic and chemical bonding effects. Physical Review Research, 2020, 2, .	1.3	1
13	Modeling the structural distortion and magnetic ground state of the polar lacunar spinel <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>GaV</mml:mi><mml:mn>4</mml:mn></mm Physical Review B, 2019, 100, .	1.1	9
14	Rapid and Tunable Assisted-Microwave Preparation of Glass and Glass-Ceramic Thiophosphate â€œLi₇P₃S₁₁â€• Li-Ion Conductors. ACS Applied Materials & Interfaces, 2019, 11, 42280-42287.	4.0	22
15	Magnetostructural Coupling Drives Magnetocaloric Behavior: The Case of MnB versus FeB. Chemistry of Materials, 2019, 31, 4873-4881.	3.2	24
16	Magnetic and Electrocatalytic Properties of Nanoscale Cobalt Boride, Co₃B. Inorganic Chemistry, 2019, 58, 16609-16617.	1.9	19
17	Deciphering structural and magnetic disorder in the chiral skyrmion host materials <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mi>x</mml:mi></mml		

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19	Low-Temperature Synthesis and Magnetostructural Transition in Antiferromagnetic, Refractory Nanoparticles: Chromium Nitride, CrN. Chemistry of Materials, 2018, 30, 1610-1616.	3.2	15
20	Magnetoentropic signatures of skyrmionic phase behavior in FeGe. Physical Review B, 2018, 97, .	1.1	41
21	A Simple Computational Proxy for Screening Magnetocaloric Compounds. Chemistry of Materials, 2017, 29, 1613-1622.	3.2	58
22	Non-conventional synthesis and magnetic properties of MAX phases (Cr/Mn)₂AlC and (Cr/Fe)₂AlC. Journal of Materials Chemistry C, 2017, 5, 5700-5708.	2.7	58
23	Nanoscale Iron Nitride, Îµ-Fe₃N: Preparation from Liquid Ammonia and Magnetic Properties. Chemistry of Materials, 2017, 29, 621-628.	3.2	46
24	Tuning the magnetocaloric response in half-Heusler/Heusler <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MnNi</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> solid solutions. Physical Review Materials, 2017, 1, .	0.9	14
25	Superconducting phase diagram of In _x WO ₃ synthesized by indium deintercalation. Europhysics Letters, 2013, 103, 17001.	0.7	13