Ryan T Ott

List of Publications by Year in descending order

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Ργαν Τ Οττ

#	Article	IF	CITATIONS
1	Additively manufactured hierarchical stainless steels with high strength and ductility. Nature Materials, 2018, 17, 63-71.	27.5	1,517
2	Metallic glass matrix composite with precipitated ductile reinforcement. Applied Physics Letters, 2002, 81, 1020-1022.	3.3	330
3	Defective twin boundaries in nanotwinned metals. Nature Materials, 2013, 12, 697-702.	27.5	255
4	Fatigue-resistant high-performance elastocaloric materials made by additive manufacturing. Science, 2019, 366, 1116-1121.	12.6	229
5	Evaluation of an Al-Ce alloy for laser additive manufacturing. Acta Materialia, 2017, 126, 507-519.	7.9	133
6	Controlling shear band behavior in metallic glasses through microstructural design. Intermetallics, 2002, 10, 1163-1166.	3.9	130
7	Characterization and modeling of a martensitic transformation in a platinum modified diffusion aluminide bond coat for thermal barrier coatings. Acta Materialia, 2003, 51, 4279-4294.	7.9	125
8	Systematic Mapping of Icosahedral Short-Range Order in a Melt-Spun <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Zr</mml:mi><mml:mn>36</mml:mn></mml:msub><mml:msub><mml:r Glass. Physical Review Letters, 2013, 110, 205505.</mml:r </mml:msub></mml:math 	ni>Zů <td>nl:mi><mml:n< td=""></mml:n<></td>	nl:mi> <mml:n< td=""></mml:n<>
9	Micromechanics of deformation of metallic-glass–matrix composites from in situ synchrotron strain measurements and finite element modeling. Acta Materialia, 2005, 53, 1883-1893.	7.9	88
10	Ideal maximum strengths and defect-induced softening in nanocrystalline-nanotwinned metals. Nature Materials, 2019, 18, 1207-1214.	27.5	87
11	Elastocaloric cooling of additive manufactured shape memory alloys with large latent heat. Journal Physics D: Applied Physics, 2017, 50, 404001.	2.8	70
12	Subsurface Cooling Rates and Microstructural Response during Laser Based Metal Additive Manufacturing. Scientific Reports, 2020, 10, 1981.	3.3	64
13	Achieving Large Uniform Tensile Ductility in Nanocrystalline Metals. Physical Review Letters, 2010, 105, 215502.	7.8	54
14	â€~Crystal Genes' in Metallic Liquids and Glasses. Scientific Reports, 2016, 6, 23734.	3.3	52
15	Optimization of strength and ductility in nanotwinned ultra-fine grained Ag: Twin density and grain orientations. Acta Materialia, 2015, 96, 378-389.	7.9	50
16	Laserâ€Induced Keyhole Defect Dynamics during Metal Additive Manufacturing. Advanced Engineering Materials, 2019, 21, 1900455.	3.5	45
17	Large-scale production of (GeTe) (AgSbTe2)100â^ (x=75, 80, 85, 90) with enhanced thermoelectric properties via gas-atomization and spark plasma sintering. Acta Materialia, 2017, 128, 43-53.	7.9	44
18	Manufacturing Processes for Permanent Magnets: Part l—Sintering and Casting. Jom, 2022, 74, 1279-1295.	1.9	40

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19	High-energy X-ray measurements of structural anisotropy and excess free volume in a homogenously deformed Zr-based metallic glass. Acta Materialia, 2006, 54, 2463-2471.	7.9	32
20	Isothermal nature of martensite formation in Pt-modified β-NiAl alloys. Acta Materialia, 2007, 55, 2433-2441.	7.9	32
21	Structure and properties of Zr–Ta–Cu–Ni–Al bulk metallic glasses and metallic glass matrix composites. Journal of Non-Crystalline Solids, 2003, 317, 158-163.	3.1	31
22	Enhanced thermal coarsening resistance in a nanostructured aluminum-cerium alloy produced by additive manufacturing. Materials and Design, 2021, 209, 109988.	7.0	31
23	Ageless Aluminum-Cerium-Based Alloys in High-Volume Die Casting for Improved Energy Efficiency. Jom, 2018, 70, 866-871.	1.9	26
24	Deformation behavior of an amorphous Cu64.5Zr35.5 alloy: A combined computer simulation and experimental study. Journal of Applied Physics, 2008, 104, .	2.5	24
25	Effect of reinforcement phase on the mechanical property of tungsten nanocomposite synthesized by spark plasma sintering. International Journal of Refractory Metals and Hard Materials, 2016, 54, 14-18.	3.8	20
26	Anelastic strain and structural anisotropy in homogeneously deformed Cu64.5Zr35.5 metallic glass. Acta Materialia, 2008, 56, 5575-5583.	7.9	18
27	Discovery of a metastable Al20Sm4 phase. Applied Physics Letters, 2015, 106, .	3.3	18
28	Effect of Temperature on the Nano/Microstructure and Mechanical Behavior of Nanotwinned Ag Films. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4078-4085.	2.2	17
29	Anisotropic atomic structure in a homogeneously deformed metallic glass. Journal of Materials Research, 2007, 22, 382-388.	2.6	13
30	Manufacturing Processes for Permanent Magnets: Part II—Bonding and Emerging Methods. Jom, 2022, 74, 2492-2506.	1.9	12
31	Casting Characteristics of High Cerium Content Aluminum Alloys. Minerals, Metals and Materials Series, 2017, , 205-211.	0.4	11
32	Enhanced mechanical performance via laser induced nanostructure formation in an additively manufactured lightweight aluminum alloy. Applied Materials Today, 2021, 22, 100972.	4.3	10
33	Imprinting bulk amorphous alloy at room temperature. Scientific Reports, 2015, 5, 16540.	3.3	8
34	Synthesis of high-strength W–Ta ultrafine-grain composites. Journal of Materials Research, 2008, 23, 133-139.	2.6	7
35	Solute–solute correlations responsible for the prepeak in structure factors of undercooled Al-rich liquids: a molecular dynamics study. Journal of Physics Condensed Matter, 2015, 27, 205701.	1.8	7
36	An abnormal meta-stable nanoscale eutectic reaction revealed by in-situ observations. Acta Materialia, 2019, 164, 697-703.	7.9	7

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37	Design of an additively manufactured functionally graded material of 316 stainless steel and Ti-6Al-4V with Ni-20Cr, Cr, and V intermediate compositions. Additive Manufacturing, 2022, 51, 102649.	3.0	7
38	Atomic cooperation in enhancing magnetism: (Fe, Cu)-doped CeCo5. Journal of Alloys and Compounds, 2020, 839, 155549.	5.5	6
39	Glass transition in a marginal glass-forming alloy studied by dynamic mechanical analysis. Journal of Applied Physics, 2014, 116, .	2.5	5
40	Thermally activated diffusion of copper into amorphous carbon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, 061401.	2.1	4
41	Effect of geometrical constraint condition on the formation of nanoscale twins in the Ni-based metallic glass composite. Philosophical Magazine Letters, 2014, 94, 351-360.	1.2	3
42	Magnetostrictive performance of additively manufactured CoFe rods using the LENSTMsystem. AIP Advances, 2018, 8, 056403.	1.3	3
43	Anodization Compatibility of Eutectic Aluminum–Cerium Alloys. Minerals, Metals and Materials Series, 2021, , 79-84.	0.4	2
44	Thermodynamic database for the Co-Pr system. Data in Brief, 2016, 6, 492-494.	1.0	1
45	Tracking Metastable Phase Selection during Devitrification in a Metallic Glass. Microscopy and Microanalysis, 2019, 25, 1874-1875.	0.4	0
46	Microstructural evolutions, phase transformations and hard magnetic properties in polycrystalline Ce–Co–Fe–Cu alloys. Materials Chemistry and Physics, 2022, 286, 126179.	4.0	0
47	Additively Manufactured High-Performance Elastocaloric Materials with Long Fatigue Life. , 2022, , .		0