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List of Publications by Year
in descending order

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51 papers	2,438 citations	257450 24 h-index	206112 48 g-index
53 all docs	53 docs citations	53 times ranked	2552 citing authors

#	Article	IF	Citations
1	Correlation between porosity and processing parameters in TiAl6V4 produced by selective laser melting. Materials and Design, 2016, 105, 160-170.	7.0	533
2	Peritectic titanium alloys for 3D printing. Nature Communications, 2018, 9, 3426.	12.8	172
3	Selectivity Control in Goldâ€Mediated Esterification of Methanol. Angewandte Chemie - International Edition, 2009, 48, 4206-4209.	13.8	167
4	The role of lattice defects, element partitioning and intrinsic heat effects on the microstructure in selective laser melted Ti-6Al-4V. Acta Materialia, 2019, 167, 136-148.	7.9	160
5	Vapour-phase gold-surface-mediated coupling of aldehydes with methanol. Nature Chemistry, 2010, 2, 61-65.	13.6	158
6	Surface-Mediated Self-Coupling of Ethanol on Gold. Journal of the American Chemical Society, 2009, 131, 5757-5759.	13.7	119
7	Inducing Stable Î± + Î² Microstructures during Selective Laser Melting of Ti-6Al-4V Using Intensified Intrinsic Heat Treatments. Materials, 2017, 10, 268.	2.9	110
8	Theoretical Study of O-Assisted Selective Coupling of Methanol on Au(111). Journal of Physical Chemistry C, 2011, 115, 3703-3708.	3.1	95
9	An Assessment of Subsurface Residual Stress Analysis in SLM Ti-6Al-4V. Materials, 2017, 10, 348.	2.9	86
10	The Role of Surface and Subsurface Point Defects for Chemical Model Studies on TiO₂: A Firstâ€Principles Theoretical Study of Formaldehyde Bonding on Rutile TiO₂(110). Chemistry - A European Journal, 2011, 17, 4496-4506.	3.3	72
11	New aspects about the search for the most relevant parameters optimizing SLM materials. Additive Manufacturing, 2019, 25, 325-334.	3.0	60
12	Oxygen-assisted cross-coupling of methanol with alkyl alcohols on metallic gold. Chemical Science, 2010, 1, 310.	7.4	58
13	In Situ Ambient Pressure Studies of the Chemistry of NO₂ and Water on Rutile TiO₂(110). Langmuir, 2010, 26, 2445-2451.	3.5	49
14	McMurry Chemistry on TiO₂(110): Reductive Câ•€ Coupling of Benzaldehyde Driven by Titanium Interstitials. Journal of the American Chemical Society, 2009, 131, 15026-15031.	13.7	45
15	Mapping the geometry of Ti-6Al-4V: From martensite decomposition to localized spheroidization during selective laser melting. Scripta Materialia, 2020, 182, 48-52.	5.2	40
16	Exploring the Correlation between Subsurface Residual Stresses and Manufacturing Parameters in Laser Powder Bed Fused Ti-6Al-4V. Metals, 2019, 9, 261.	2.3	38
17	Hydrogenation of 1,3-butadiene on Pd(111) and PdSn/Pd(111) surface alloys under UHV conditions. Journal of Catalysis, 2007, 251, 123-130.	6.2	35
18	Molecular Imaging of Reductive Coupling Reactions: Interstitial-Mediated Coupling of Benzaldehyde on Reduced TiO₂(110). ACS Nano, 2011, 5, 834-843.	14.6	35

#	Article	IF	Citations
19	An in situ investigation of the deformation mechanisms in a Î²-quenched Ti-5Al-5V-5Mo-3Cr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 717, 134-143.	5.6	30
20	Separation of the impact of residual stress and microstructure on the fatigue performance of LPBF Ti-6Al-4V at elevated temperature. International Journal of Fatigue, 2021, 148, 106239.	5.7	28
21	Determination of the crotonaldehyde structures on Pt and PtSn surface alloys from a combined experimental and theoretical study. Chemical Physics Letters, 2006, 433, 188-192.	2.6	27
22	Adsorption of Simple Alkenes on Pt(111) and Ptâ˜Sn Surface Alloys: Bond Strength versus Heat of Adsorption. Journal of Physical Chemistry C, 2008, 112, 14693-14695.	3.1	25
23	The effect of build direction and geometric optimization in laser powder bed fusion of Inconel 718 structures with internal channels. Materials and Design, 2021, 207, 109858.	7.0	24
24	Ultrafine eutectic Ti-Fe-based alloys processed by additive manufacturing â€“ A new candidate for high temperature applications. Applied Materials Today, 2020, 20, 100767.	4.3	22
25	Acrolein coupling on reduced TiO2(110): The effect of surface oxidation and the role of subsurface defects. Surface Science, 2009, 603, 1010-1017.	1.9	19
26	Pandoraâ€™s Boxâ€“Influence of Contour Parameters on Roughness and Subsurface Residual Stresses in Laser Powder Bed Fusion of Ti-6Al-4V. Materials, 2020, 13, 3348.	2.9	18
27	Interfaceâ€Mediated Twinningâ€Induced Plasticity in a Fine Hexagonal Microstructure Generated by Additive Manufacturing. Advanced Materials, 2021, 33, e2105096.	21.0	17
28	Connecting Diffraction-Based Strain with Macroscopic Stresses in Laser Powder Bed Fused Ti-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3194-3204.	2.2	15
29	The electronic spectrum of linear and cyclic C6+. A theoretical study. Physical Chemistry Chemical Physics, 2002, 4, 2891-2896.	2.8	14
30	A Comparative ab Initio Multireference Single and Double Excitation Configuration Interaction Study of the Electronic Spectra of Low-Lying Linear and Cyclic C5H Isomers. Journal of Physical Chemistry A, 2002, 106, 8201-8206.	2.5	13
31	First gravimetric detection of ethene utilizing metallo-supramolecular macrocycles as sensor-active substances. Sensors and Actuators B: Chemical, 2006, 119, 302-307.	7.8	12
32	Corrigendum to â€œCorrelation between porosity and processing parameters in TiAl6V4 produced by selective laser meltingâ€•[Materials and Design 105 (2016) 160â€“170]. Materials and Design, 2016, 112, 160-161.	7.0	12
33	Effect of vanadium ion valence state on the deposition behaviour in molten salt electrolysis. Journal of Applied Electrochemistry, 2018, 48, 427-434.	2.9	11
34	Pyrometric-Based Melt Pool Monitoring Study of CuCr1Zr Processed Using L-PBF. Materials, 2020, 13, 4626.	2.9	11
35	Buried interfaces â€“ A systematic study to characterize an adhesive interface at multiple scales. Applied Surface Science, 2018, 433, 546-555.	6.1	10
36	Electrodeposition of titaniumâ€“vanadium alloys from chloride-based molten salts: influence of electrolyte chemistry and deposition potential on composition, morphology and microstructure. Journal of Applied Electrochemistry, 2020, 50, 355-366.	2.9	10

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37	The electronic spectrum of linear HC9H. Chemical Physics, 2002, 280, 205-210.	1.9	9
38	A comparative MRD-CI study of the electronic spectrum of linear and cyclic C8+ clusters. Journal of Molecular Spectroscopy, 2004, 228, 31-37.	1.2	9
39	In Situ Highâ€Energy Synchrotron Xâ€Ray Diffraction Reveals the Role of Texture on the Activation of Slip and Twinning during Deformation of Laser Powder Bed Fusion Tiâ€“6Alâ€“4V. Advanced Engineering Materials, 0, , 2001556.	3.5	8
40	Carbonyl Coupling: Defects and O₂ Make or Break the Essential Reaction Intermediate on Titanium Dioxide. Chemistry - A European Journal, 2011, 17, 8309-8312.	3.3	7
41	Anodic dissolution of vanadium in molten LiClâ€“KClâ€“TiCl2. Journal of Applied Electrochemistry, 2017, 47, 573-581.	2.9	6
42	Interfacial Reactions and Fracture Behavior of Ti Alloy-Ag28Cu Brazing Joints: Influence of Titanium Alloy Composition. Metals, 2018, 8, 830.	2.3	5
43	Classification of Defect Types in SLM Ti-6Al-V4 by X-ray Refraction Topography. Materials Performance and Characterization, 2020, 9, 20190080.	0.3	4
44	Ab initio MRD-CI study of the electronic spectrum of linear C5H+. Computational and Theoretical Chemistry, 2003, 623, 335-340.	1.5	3
45	Micromechanical behavior of annealed Ti-6Al-4V produced by Laser Powder Bed Fusion. European Journal of Materials, 2022, 2, 186-201.	2.6	3
46	The electronic spectrum of linear HC9H+. International Journal of Quantum Chemistry, 2004, 100, 53-58.	2.0	2
47	High Resolution 3D and 4D Characterization of Microstructure Formation in Novel Ti Alloys for Additive Manufacturing. Microscopy and Microanalysis, 2019, 25, 384-385.	0.4	2
48	Cover Picture: Selectivity Control in Gold-Mediated Esterification of Methanol (Angew. Chem. Int. Ed.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	13.8	1
49	High energy near- and far-field ptychographic tomography at the ESRF. , 2017, , .		1
50	Influence of laser-generated surface micro-structuring on the intrinsically bonded hybrid system CFRP-EN AW 6082-T6 on its corrosion properties. Composite Structures, 2022, 285, 115238.	5.8	1
51	Titelbild: Selectivity Control in Gold-Mediated Esterification of Methanol (Angew. Chem. 23/2009). Angewandte Chemie, 2009, 121, 4141-4141.	2.0	0