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Materials informatics

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#	Paper	IF	Citations
71	Embedding domain knowledge for machine learning of complex material systems. <i>MRS Communications</i> , 2019 , 9, 806-820	2.7	16
70	Applying Neural-Network-Based Machine Learning to Additive Manufacturing: Current Applications, Challenges, and Future Perspectives. <i>Engineering</i> , 2019 , 5, 721-729	9.7	136
69	Accelerated Search for BaTiO-Based Ceramics with Large Energy Storage at Low Fields Using Machine Learning and Experimental Design. <i>Advanced Science</i> , 2019 , 6, 1901395	13.6	26
68	Completing the picture through correlative characterization. <i>Nature Materials</i> , 2019 , 18, 1041-1049	27	43
67	Multifidelity Information Fusion with Machine Learning: A Case Study of Dopant Formation Energies in Hafnia. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24906-24918	9.5	33
66	Design and Evaluation of Conceptual Ontologies for Electrochemistry as a Domain. 2019 ,		25
65	On-the-Fly Adaptivity for Nonlinear Twoscale Simulations Using Artificial Neural Networks and Reduced Order Modeling. <i>Frontiers in Materials</i> , 2019 , 6,	4	28
64	Recent developments of artificial intelligence in drying of fresh food: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2019 , 59, 2258-2275	11.5	64
63	Machine learning in materials modeling fundamentals and the opportunities in 2D materials. 2020 , 445-468		2
62	Feature engineering of material structure for AI-based materials knowledge systems. <i>Journal of Applied Physics</i> , 2020 , 128, 041103	2.5	12
61	Artificial Intelligence-Driven Circular Economy as a Key Enabler for Sustainable Energy Management. <i>Materials Circular Economy</i> , 2020 , 2, 1	4.3	11
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57	Machine learning assisted multi-objective optimization for materials processing parameters: A case study in Mg alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156159	5.7	16
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54	Analytic formulas of peak current in cyclic voltammogram: Machine learning as an alternative way?. <i>Journal of Chemometrics</i> , 2021 , 35, e3314	1.6	3
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52	Tribo-informatics: Concept, architecture, and case study. <i>Friction</i> , 2021 , 9, 642-655	5.6	11
51	Mobilising information systems scholarship for a circular economy: Review, synthesis, and directions for future research. <i>Information Systems Journal</i> , 2021 , 31, 148-183	5.9	13
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46	Modeling process-structure-property relationships in metal additive manufacturing: a review on physics-driven versus data-driven approaches. <i>JPhys Materials</i> , 2021 , 4, 032002	4.2	18
45	Machine-learning semilocal density functional theory for many-body lattice models at zero and finite temperature. <i>Physical Review B</i> , 2021 , 103,	3.3	
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19	Intergranular corrosion behaviour of FeCoCrNi high-entropy alloy fabricated by selective laser melting.		

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5	Predicting the Loading Parameters of a Square Panel Upon Linear Deflection. 2023 , 84-91		o
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