

Changwon Suh

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,310
citations

687363

13
h-index

713466

21
g-index

28
all docs

28
docs citations

28
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	A metal-free organic–inorganic aqueous flow battery. <i>Nature</i> , 2014, 505, 195-198.	27.8	1,333
2	Computational design of molecules for an all-quinone redox flow battery. <i>Chemical Science</i> , 2015, 6, 885-893.	7.4	341
3	What Is High-Throughput Virtual Screening? A Perspective from Organic Materials Discovery. <i>Annual Review of Materials Research</i> , 2015, 45, 195-216.	9.3	203
4	Combinatorial design of semiconductor chemistry for bandgap engineering: “virtual” combinatorial experimentation. <i>Applied Surface Science</i> , 2004, 223, 148-158.	6.1	63
5	The application of Principal Component Analysis to materials science data. <i>Data Science Journal</i> , 2002, 1, 19-26.	1.3	57
6	Evolving the Materials Genome: How Machine Learning Is Fueling the Next Generation of Materials Discovery. <i>Annual Review of Materials Research</i> , 2020, 50, 1-25.	9.3	49
7	Virtual Screening and QSAR Formulations for Crystal Chemistry. <i>QSAR and Combinatorial Science</i> , 2005, 24, 114-119.	1.4	43
8	Principal component analysis and dimensional analysis as materials informatics tools to reduce dimensionality in materials science and engineering. <i>Statistical Analysis and Data Mining</i> , 2009, 1, 361-371.	2.8	38
9	Principal Component Analysis of Catalytic Functions in the Composition Space of Heterogeneous Catalysts. <i>QSAR and Combinatorial Science</i> , 2007, 26, 528-535.	1.4	37
10	Analyzing Sparse Data for Nitride Spinel Using Data Mining, Neural Networks, and Multiobjective Genetic Algorithms. <i>Materials and Manufacturing Processes</i> , 2008, 24, 2-9.	4.7	33
11	“Secondary” descriptor development for zeolite framework design: an informatics approach. <i>Applied Catalysis A: General</i> , 2003, 254, 147-160.	4.3	28
12	Extracting information from the molten salt database. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 3411-3414.	2.2	17
13	Visualization of High-Dimensional Combinatorial Catalysis Data. <i>ACS Combinatorial Science</i> , 2009, 11, 385-392.	3.3	15
14	Application of principal component analysis to a full profile correlative analysis of FTIR spectra. <i>Surface and Interface Analysis</i> , 2012, 44, 365-371.	1.8	11
15	Combinatorial Materials Design through Database Science. <i>Materials Research Society Symposia Proceedings</i> , 2003, 804, 296.	0.1	9
16	Informatics for chemical crystallography. <i>Jom</i> , 2009, 61, 48-53.	1.9	5
17	Exploring high-dimensional data space: Identifying optimal process conditions in photovoltaics. , 2011, , ,		4
18	Analysis of governing factors for photovoltaic loss mechanism of n-CdS/p-CdTe heterojunction via multi-way data decomposition. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 49-60.	8.1	4

#	ARTICLE	IF	CITATIONS
19	2006 Visualization Challenge Winners. Science, 2006, 313, 1730-1735.	12.6	3
20	Multivariate Analysis for Chemistry-Property Relationships in Molten Salts. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 467-476.	1.5	2
21	Step-stress accelerated lifetime testing for photovoltaic devices and cells. , 2010, , .		1
22	Data Mining-Aided Crystal Engineering for the Design of Transparent Conducting Oxides. Materials Research Society Symposia Proceedings, 2011, 1315, 1.	0.1	1
23	Photovoltaics Informatics: Harnessing Energy Science via Data-driven Approaches. Materials Research Society Symposia Proceedings, 2012, 1425, 7.	0.1	1
24	Tools for Aggregating, Analyzing and Mining Combinatorial Data. Materials Research Society Symposia Proceedings, 2009, 1159, 3081.	0.1	0
25	Data-mining-aided mapping of structure-property relationships for combinatorially generated Co-doped ZnO thin films. , 2010, , .		0
26	Step-stress accelerated lifetime testing for photovoltaic devices and cells. , 2010, , .		0