

Stavros-Richard Christopoulos

List of Publications by Year in descending order

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55
papers

991
citations

471061

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476904

29
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56
all docs

56
docs citations

56
times ranked

966
citing authors

#	ARTICLE	IF	CITATIONS
1	Diffusion pathways in $ZrCO_2$ and $ZrCO_2$ and $ZrCO_2$ si1.svg si2.svg si1.svg si1.svg">Computational Materials Science, 2022, 201, 110868.	1.4	4
2	DIMS: A tool for setting up defects and impurities CASTEP calculations. Computational Materials Science, 2022, 202, 110976.	1.4	6
3	Theoretical investigation of nitrogen-vacancy defects in silicon. AIP Advances, 2022, 12, .	0.6	4
4	Optical response, lithiation and charge transfer in Sn-based 211 MAX phases with electron localization function. Journal of Materials Research and Technology, 2022, 18, 2470-2479.	2.6	13
5	Mg-ion diffusion on the surface of Ti3C2S2 MXene. Journal of Physics and Chemistry of Solids, 2022, 166, 110713.	1.9	7
6	The $ZrCO_2$		

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19	Electronegativity and doping in Si _{1-x} Gex alloys. Scientific Reports, 2020, 10, 7459.	1.6	13
20	On the Statistical Significance of the Variability Minima of the Order Parameter of Seismicity by Means of Event Coincidence Analysis. Applied Sciences (Switzerland), 2020, 10, 662.	1.3	17
21	Learning Uncertainties in Wheel Odometry for Vehicular Localisation in GNSS Deprived Environments. , 2020, , .		10
22	Impact of local composition on the energetics of E-centres in Si _{1-x} Gex alloys. Scientific Reports, 2019, 9, 10849.	1.6	4
23	Probabilistic Analysis of Abnormal Behaviour Detection in Activities of Daily Living. , 2019, , .		9
24	Probabilistic Analysis of Temporal and Sequential Aspects of Activities of Daily Living for Abnormal Behaviour Detection. , 2019, , .		7
25	312 MAX Phases: Elastic Properties and Lithiation. Materials, 2019, 12, 4098.	1.3	20
26	Learning Driver Braking Behavior Using Smartphones, Neural Networks and the Sliding Correlation Coefficient: Road Anomaly Case Study. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 65-74.	4.7	30
27	Smartphones as an integrated platform for monitoring driver behaviour: The role of sensor fusion and connectivity. Transportation Research Part C: Emerging Technologies, 2018, 95, 867-882.	3.9	64
28	Intrinsic defect processes and elastic properties of Ti ₃ AC ₂ (A = Al, Si, Ga, Ge, In, Sn) MAX phases. Journal of Applied Physics, 2018, 123, .	1.1	31
29	Isovalent doping and the CiO _i defect in germanium. Journal of Materials Science: Materials in Electronics, 2018, 29, 4261-4265.	1.1	3
30	Physical properties and defect processes of M ₃ SnC ₂ (M = Ti, Zr, Hf) MAX phases: Effect of M-elements. Journal of Alloys and Compounds, 2018, 748, 804-813.	2.8	49
31	The CiCs(Si) _n Defect in Silicon from a Density Functional Theory Perspective. Materials, 2018, 11, 612.	1.3	6
32	A roadmap of strain in doped anatase TiO ₂ . Scientific Reports, 2018, 8, 12790.	1.6	27
33	Estimation of multifractality based on natural time analysis. Physica A: Statistical Mechanics and Its Applications, 2018, 512, 153-164.	1.2	13
34	Detecting anomalies in time series data via a deep learning algorithm combining wavelets, neural networks and Hilbert transform. Expert Systems With Applications, 2017, 85, 292-304.	4.4	86
35	The CiO _i (Si) ₂ defect in silicon: density functional theory calculations. Journal of Materials Science: Materials in Electronics, 2017, 28, 10295-10297.	1.1	8
36	Defect processes of M ₃ AlC ₂ (M = V, Zr, Ta, Ti) MAX phases. Solid State Communications, 2017, 261, 54-56.	0.9	9

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37	Experimental synthesis and density functional theory investigation of radiation tolerance of $Zr_3(Al_{1-x}Sc_x)C_2$ MAX phases. Journal of the American Ceramic Society, 2017, 100, 1377-1387.	1.9	45
38	Mechanical behavior, bonding nature and defect processes of Mo_2ScAlC_2 : A new ordered MAX phase. Journal of Alloys and Compounds, 2017, 724, 1167-1175.	2.8	52
39	Defect processes in Li_2ZrO_3 : insights from atomistic modelling. Journal of Materials Science: Materials in Electronics, 2017, 28, 11789-11793.	1.1	7
40	Impact of isovalent doping on the formation of the $C_i O_i (Si_l)_n$ defects in silicon. Solid State Communications, 2017, 263, 19-22.	0.9	9
41	Hydrogen and nitrogen codoping of anatase TiO_2 for efficiency enhancement in organic solar cells. Scientific Reports, 2017, 7, 17839.	1.6	24
42	An Application of the Coherent Noise Model for the Prediction of Aftershock Magnitude Time Series. Complexity, 2017, 2017, 1-27.	0.9	12
43	Activation volumes of oxygen self-diffusion in fluorite structured oxides. Materials Research Express, 2016, 3, 105504.	0.8	4
44	Thermodynamic calculations of oxygen self-diffusion in mixed-oxide nuclear fuels. RSC Advances, 2016, 6, 74018-74027.	1.7	14
45	Relative concentrations of carbon related defects in silicon. Journal of Materials Science: Materials in Electronics, 2016, 27, 11268-11272.	1.1	1
46	Statistical Significance of Minimum of the Order Parameter Fluctuations of Seismicity Before Major Earthquakes in Japan. Pure and Applied Geophysics, 2016, 173, 165-172.	0.8	17
47	Controlling A-center concentration in silicon through isovalent doping: mass action analysis. Journal of Materials Science: Materials in Electronics, 2016, 27, 4385-4391.	1.1	4
48	Minima of the fluctuations of the order parameter of global seismicity. Chaos, 2015, 25, 063110.	1.0	17
49	Identifying the occurrence time of an impending mainshock: a very recent case. Earthquake Science, 2015, 28, 215-222.	0.4	13
50	VV and VO_2 defects in silicon studied with hybrid density functional theory. Journal of Materials Science: Materials in Electronics, 2015, 26, 1568-1571.	1.1	8
51	Change \hat{I}^S of the entropy in natural time under time reversal: Complexity measures upon change of scale. Europhysics Letters, 2015, 109, 18002.	0.7	33
52	-exponential relaxation of the expected avalanche size in the coherent noise model. Physica A: Statistical Mechanics and Its Applications, 2014, 407, 216-225.	1.2	9
53	Visualization of the significance of Receiver Operating Characteristics based on confidence ellipses. Computer Physics Communications, 2014, 185, 1172-1176.	3.0	26
54	Natural time analysis of the Centennial Earthquake Catalog. Chaos, 2012, 22, 023123.	1.0	37

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55	Predictability of the coherent-noise model and its applications. Physical Review E, 2012, 85, 051136.	0.8	8