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108
papers

1,635
citations

23
h-index

34
g-index

113
ext. papers

1,809
ext. citations

3.7
avg, IF

4.79
L-index

#	Paper	IF	Citations
108	Modification of the Kolmogorov-Johnson-Mehl-Avrami rate equation for non-isothermal experiments and its analytical solution. <i>Acta Materialia</i> , 2006 , 54, 5573-5579	8.4	139
107	Isoconversional analysis of solid state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 757-766	4.1	94
106	Speed of wave-front solutions to hyperbolic reaction-diffusion equations. <i>Physical Review E</i> , 1999 , 60, 5231-43	2.4	48
105	Numerical model of solid phase transformations governed by nucleation and growth: Microstructure development during isothermal crystallization. <i>Physical Review B</i> , 2007 , 75,	3.3	46
104	Exact analytical solution for the Kissinger equation: Determination of the peak temperature and general properties of thermally activated transformations. <i>Thermochimica Acta</i> , 2014 , 598, 51-58	2.9	44
103	Isoconversional analysis of solid state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011 , 105, 767-773	4.1	40
102	Thermal Analysis for Low Temperature Synthesis of Oxide Thin Films from Chemical Solutions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 20133-20138	3.8	37
101	Evolution of yttrium trifluoroacetate during thermal decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 108, 589-596	4.1	37
100	Si ₃ N ₄ single-crystal nanowires grown from silicon micro- and nanoparticles near the threshold of passive oxidation. <i>Applied Physics Letters</i> , 2005 , 87, 192114	3.4	35
99	Solution design for low-fluorine trifluoroacetate route to YBa ₂ Cu ₃ O ₇ films. <i>Superconductor Science and Technology</i> , 2016 , 29, 024002	3.1	34
98	A simple kinetic method for the determination of the reaction model from non-isothermal experiments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010 , 102, 615-625	4.1	34
97	The thermal decomposition of barium trifluoroacetate. <i>Thermochimica Acta</i> , 2012 , 544, 77-83	2.9	32
96	Analytical solution for the Kissinger equation. <i>Journal of Materials Research</i> , 2009 , 24, 3095-3098	2.5	31
95	Thermal gradients in thermal analysis experiments: Criteria to prevent inaccuracies when determining sample temperature and kinetic parameters. <i>Thermochimica Acta</i> , 2014 , 589, 37-46	2.9	30
94	Thermal analysis of metal organic precursors for functional oxide preparation: Thin films versus powders. <i>Thermochimica Acta</i> , 2015 , 601, 1-8	2.9	28
93	Quantification of the bond-angle dispersion by Raman spectroscopy and the strain energy of amorphous silicon. <i>Journal of Applied Physics</i> , 2008 , 104, 073521	2.5	28
92	Cell size distribution in a random tessellation of space governed by the Kolmogorov-Johnson-Mehl-Avrami model: Grain size distribution in crystallization. <i>Physical Review B</i> , 2008 , 78,	3.3	28

91	Passive-Oxidation Kinetics of SiC Microparticles. <i>Journal of the American Ceramic Society</i> , 2004 , 87, 1301-1305	2.8	28
90	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. <i>Thin Solid Films</i> , 2012 , 520, 1949-1953	2.2	27
89	Decomposition processes and structural transformations of cerium propionate into nanocrystalline ceria at different oxygen partial pressures. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4085-4096	2.3	25
88	Thermoanalytical study of the formation mechanism of yttria from yttrium acetate. <i>Thermochimica Acta</i> , 2011 , 521, 84-89	2.9	24
87	Epitaxial superconducting GdBa ₂ Cu ₃ O _{7-x} /Gd ₂ O ₃ nanocomposite thin films from advanced low-fluorine solutions. <i>Superconductor Science and Technology</i> , 2017 , 30, 125010	3.1	23
86	Simple approximate analytical solution for nonisothermal single-step transformations: Kinetic analysis. <i>AIChE Journal</i> , 2008 , 54, 2145-2154	3.6	23
85	Fibre laser cutting of polycaprolactone sheet for stents manufacturing: A feasibility study. <i>Optics and Laser Technology</i> , 2017 , 95, 113-123	4.2	22
84	Isoconversional analysis of solid-state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 109, 183-191	4.1	22
83	Ene reactions between two alkynes? Doors open to thermally induced cycloisomerization of macrocyclic triynes and enediynes. <i>Chemical Communications</i> , 2010 , 46, 2944-6	5.8	20
82	Gluing bifurcations in optothermal nonlinear devices. <i>Physical Review E</i> , 1998 , 57, 5366-5377	2.4	20
81	Thermal decomposition of barium trifluoroacetate thin films. <i>Thermochimica Acta</i> , 2013 , 556, 58-62	2.9	19
80	Calorimetry of dehydrogenation and dangling-bond recombination in several hydrogenated amorphous silicon materials. <i>Physical Review B</i> , 2006 , 73,	3.3	19
79	The critical conditions for thermal explosion in a system heated at a constant rate. <i>Combustion and Flame</i> , 2017 , 186, 211-219	5.3	18
78	Ultrafast transient liquid assisted growth of high current density superconducting films. <i>Nature Communications</i> , 2020 , 11, 344	17.4	18
77	Thermal decomposition of yttrium propionate: film and powder. <i>Journal of Analytical and Applied Pyrolysis</i> , 2018 , 133, 225-233	6	17
76	Crystallization kinetics of hydrogenated amorphous silicon thick films grown by plasma-enhanced chemical vapour deposition. <i>Applied Surface Science</i> , 2004 , 238, 165-168	6.7	17
75	Structural relaxation kinetics for first- and second-order processes: Application to pure amorphous silicon. <i>Acta Materialia</i> , 2009 , 57, 2098-2107	8.4	16
74	Enhancement of oxidation rate of a-Si nanoparticles during dehydrogenation. <i>Applied Physics Letters</i> , 2001 , 79, 3705-3707	3.4	16

73	Homoclinic phenomena in opto-thermal bistability with localized absorption. <i>Physica D: Nonlinear Phenomena</i> , 1995 , 85, 509-547	3.3	16
72	Homoclinic dynamics in experimental Shil'nikov attractors. <i>Physical Review E</i> , 1996 , 53, 5627-5636	2.4	16
71	Measuring thermal conductivity of powders with differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 125, 571-577	4.1	15
70	Thermoanalytical study of the decomposition of yttrium trifluoroacetate thin films. <i>Thin Solid Films</i> , 2013 , 545, 200-204	2.2	15
69	Analysis of the sensitivity and sample furnace thermal-lag of a differential thermal analyzer. <i>Thermochimica Acta</i> , 2005 , 430, 115-122	2.9	15
68	Calorimetry of hydrogen desorption from a-Si nanoparticles. <i>Physical Review B</i> , 2002 , 65,	3.3	15
67	Mechanical properties of nanometric structures of Si/SiC, C/SiC and C/SiN produced by PECVD. <i>Diamond and Related Materials</i> , 2001 , 10, 1115-1120	3.5	15
66	Non-isothermal model-free predictions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012 , 108, 597-603	4.1	14
65	The crystallization temperature of silicon nanoparticles. <i>Nanotechnology</i> , 2007 , 18, 175705	3.4	14
64	The configurational energy gap between amorphous and crystalline silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 361-363	2.5	13
63	Kinetic study of the oxide-assisted catalyst-free synthesis of silicon nitride nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1307-1312	1.6	13
62	Equivalent low-order model for a nonlinear diffusion equation. <i>Physica D: Nonlinear Phenomena</i> , 1996 , 95, 107-127	3.3	13
61	Synthesis of LaFeO ₃ perovskite-type oxide via solid-state combustion of a cyano complex precursor: The effect of oxygen diffusion. <i>Ceramics International</i> , 2017 , 43, 3156-3165	5.1	12
60	Melting temperature of YBa ₂ Cu ₃ O _{7-x} and GdBa ₂ Cu ₃ O _{7-x} at subatmospheric partial pressure. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 787-792	5.7	12
59	Self-propagating high-temperature synthesis of LaMO ₃ perovskite-type oxide using heteronuclearcyano metal complex precursors. <i>Journal of Alloys and Compounds</i> , 2015 , 649, 1291-1299	5.7	12
58	Is sintering enhanced under non-isothermal conditions?. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 337, 248-253	5.3	12
57	Isoconversional analysis of copper recrystallization. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 125, 667-672	4.1	11
56	Surface analysis of nanostructured ceramic coatings containing silicon carbide nanoparticles produced by plasma modulation chemical vapour deposition. <i>Thin Solid Films</i> , 2000 , 377-378, 495-500	2.2	11

55	Role of symmetries in the transition to turbulence in optics. <i>Physical Review A</i> , 1998 , 57, 580-584	2.6	11
54	Rössler chaos in opto-thermal bistable devices. <i>Optics Communications</i> , 1994 , 113, 324-334	2	11
53	Oxidation of silicon: Further tests for the interfacial silicon emission model. <i>Journal of Applied Physics</i> , 2007 , 102, 054902	2.5	10
52	Thermal decomposition of CuProp2: In-situ analysis of film and powder pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 140, 312-320	6	9
51	Relaxation and derelaxation of pure and hydrogenated amorphous silicon during thermal annealing experiments. <i>Applied Physics Letters</i> , 2010 , 97, 031918	3.4	9
50	Molecular hydrogen diffusion in nanostructured amorphous silicon thin films. <i>Physical Review B</i> , 2009 , 80,	3.3	9
49	Measurement by differential scanning calorimetry of specific heat capacity variation due to crystallization: Application to amorphous silicon. <i>Thermochimica Acta</i> , 2011 , 522, 161-165	2.9	9
48	Solid-phase crystallization under continuous heating: Kinetic and microstructure scaling laws. <i>Journal of Materials Research</i> , 2008 , 23, 418-426	2.5	9
47	Radical and oxidative pathways in the pyrolysis of a barium propionate-acetate salt. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 141, 104640	6	8
46	Determination of thermal conductivity of powders in different atmospheres by differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 469-473	4.1	8
45	Homoclinic bifurcations in thermo-optical bistability with localized absorption. <i>Optics Communications</i> , 1991 , 82, 162-170	2	8
44	The critical condition for thermal explosion in an isoperibolic system. <i>AIChE Journal</i> , 2017 , 63, 3979-3993	3.6	7
43	Growth of epitaxial CeO ₂ buffer layers by polymer assisted deposition. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1449, 31		7
42	Full instability behavior of N-dimensional dynamical systems with a one-directional nonlinear vector field. <i>Physical Review E</i> , 2000 , 62, 333-48	2.4	7
41	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa ₂ Cu ₃ O _{7-x} Film Growth by Transient Liquid-Assisted Growth. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15574-15584	3.8	6
40	Can We Trust on the Thermal Analysis of Metal Organic Powders for thin film preparation?. <i>Materials Research Society Symposia Proceedings</i> , 2012 , 1449, 13		6
39	A Modified Method for T-CR-T Diagram Construction Application to Polyethylene Glycol. <i>Magyar Áprilad Közlemények</i> , 1998 , 52, 765-772	0	6
38	Structural Differences between Open-Chain and Macrocyclic Triene Ligands for Palladium(0): Influence on the Stability and Catalytical Properties. <i>Organometallics</i> , 2008 , 27, 5768-5776	3.8	6

37	Thermal Analysis of a Polyethylene Glycol (PEG 4000): T-CR-T Diagram Construction. <i>Magyar Árvad Kéleműyek</i> , 2000 , 61, 711-718	0	6
36	N-dimensional dynamical systems exploiting instabilities in full. <i>Chaos</i> , 2000 , 10, 760-770	3.3	6
35	Elucidation of the decomposition reactions of low-fluorine YBa ₂ Cu ₃ O _{7-x} precursors during film pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 148, 104777	6	6
34	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine. <i>Thermochimica Acta</i> , 2018 , 665, 92-101	2.9	6
33	The effect of volatiles on the measurement of the reaction heat by differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015 , 121, 187-194	4.1	5
32	Comment on "relaxation kinetics of nanoscale indents in a polymer glass". <i>Physical Review Letters</i> , 2009 , 103, 119801; author reply 119802	7.4	5
31	Comment on Dynamics of thermal growth of silicon oxide films on Si. <i>Physical Review B</i> , 2006 , 74,	3.3	5
30	Thermal oxidation of polymer-like amorphous Si _x CyHwOz nanoparticles. <i>Diamond and Related Materials</i> , 2001 , 10, 1295-1299	3.5	5
29	Thermal decomposition of cerium triethanolamine complexes. <i>Thermochimica Acta</i> , 2020 , 683, 178430	2.9	5
28	Model-free isoconversional method applied to polymer crystallization governed by the Hoffman-Lauritzen kinetics. <i>Polymer</i> , 2017 , 120, 111-118	3.9	4
27	Pyrolysis study of solution-derived superconducting YBa ₂ Cu ₃ O ₇ films: disentangling the physico-chemical transformations. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10266-10282	7.1	4
26	Synthesis of perovskite-type oxide, LaFeO ₃ , from coordination polymer precursor, La[Fe(CN) ₆] \cdot 5H ₂ O. <i>Journal of the Ceramic Society of Japan</i> , 2016 , 124, 7-12	1	4
25	Characterization of amorphous and nanostructured Si films by differential scanning calorimetry. <i>Thin Solid Films</i> , 2009 , 517, 6239-6242	2.2	4
24	Thermally Induced Structural Transformations on Polymorphous Silicon. <i>Journal of Materials Research</i> , 2005 , 20, 2562-2567	2.5	4
23	Thermal Gradients in Thermal Analysis Experiments. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , 2017 , 345-362		4
22	Using evolved gas analysis \square mass spectrometry to characterize adsorption on a nanoparticle surface. <i>Nanoscale Advances</i> , 2019 , 1, 2740-2747	5.1	3
21	Effect of triethanolamine on the pyrolysis of metal-propionate-based solutions. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 143, 104685	6	3
20	Addendum to A simple kinetic method for the determination of the reaction model from non-isothermal experiments \square <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 457-457	4.1	3

19	Grain Size Control by Means of Solid Phase Crystallization of Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 989, 17		3
18	Anomalous crystallization of hydrogenated amorphous silicon during fast heating ramps. <i>Journal of Materials Research</i> , 2005 , 20, 277-281	2.5	3
17	Experimental Analysis of Codimension-2 Bifurcations in a Periodically-Forced Opto-Thermal Oscillator. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998 , 08, 1413-1435	2	3
16	Synthesis, structural study, thermal, optical properties and characterization of the new compound [C 6 H 7 N 2 O 2] 3 TeCl 5 DCl. <i>Chinese Chemical Letters</i> , 2017 , 28, 1773-1779	8.1	2
15	Can the crystallization rate be independent from the crystallization enthalpy? The case of amorphous silicon. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 095401	1.8	2
14	Gas renewal in the horizontal furnace of a thermobalance. <i>Thermochimica Acta</i> , 2004 , 412, 113-119	2.9	2
13	Nonlinear oscillatory mixing in the generalized Landau scenario. <i>Physical Review E</i> , 2018 , 97, 052218	2.4	2
12	High Performance of Superconducting YBa2Cu3O7 Thick Films Prepared by Single-Deposition Inkjet Printing. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 3948-3961	4	2
11	Low temperature processing of solution-derived ceria deposits on flat surfaces of 3D-printed polyamide. <i>Thin Solid Films</i> , 2019 , 685, 75-80	2.2	1
10	Measurement of the specific heat and determination of the thermodynamic functions of relaxed amorphous silicon. <i>Journal of Applied Physics</i> , 2013 , 113, 173515	2.5	1
9	Restricted epitaxial growth of crystallites in hydrogenated nanocrystalline silicon during thermal crystallization experiments. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3700-7	1.3	1
8	Thermal Stabilization and Crystallization of Nanometric Particles of Si-C-N Produced by RF-Plasma Enhanced Chemical-Vapor-Deposition. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 2451		1
7	Application of thermal analysis and kinetic predictions to YBCO films prepared by chemical solution deposition methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 2077-2086	4.1	1
6	Use of thermal analysis to predict the conditions for thermal explosion to occur: application to a Ce triethanolamine complex. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 142, 2087-2094	4.1	0
5	Preparation of GdBa2Cu3O6+x (GdBCO) precursor powder by spray-drying a nitrate solution containing PEG. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1752-1760	2	
4	Si-N nanowire formation from Silicon nano and microparticles.. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 789, 18		
3	Thermal Oxidation of Si Nanoparticles Grown by Plasma-Enhanced CVD. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 5111		
2	Flip-flop operation in opto-thermal bistable devices with localized absorption. <i>Fiber and Integrated Optics</i> , 1993 , 12, 287-300	0.8	

- 1 Nonlinear complexification of periodic orbits in the generalized Landau scenario.. *Chaos*, **2022**, 32, 023116, 16