J Farjas

List of Publications by Year
in descending order

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110 papers	1,949 citations	236833 25 h-index	330025 37 g-index
113 all docs	113 docs citations	113 times ranked	1632 citing authors

#	Article	IF	Citations
1	Nonlinear complexification of periodic orbits in the generalized Landau scenario. Chaos, 2022, 32, 023116.	1.0	1
2	High Performance of Superconducting YBa₂Cu₃O₇ Thick Films Prepared by Single-Deposition Inkjet Printing. ACS Applied Electronic Materials, 2021, 3, 3948-3961.	2.0	8
3	Thermal decomposition of cerium triethanolamine complexes. Thermochimica Acta, 2020, 683, 178430.	1.2	5
4	Use of thermal analysis to predict the conditions for thermal explosion to occur: application to a Ce triethanolamine complex. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2087-2094.	2.0	2
5	Elucidation of the decomposition reactions of low-fluorine YBa2Cu3O7-x precursors during film pyrolysis. Journal of Analytical and Applied Pyrolysis, 2020, 148, 104777.	2.6	8
6	Application of thermal analysis and kinetic predictions to YBCO films prepared by chemical solution deposition methods. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2077-2086.	2.0	4
7	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa₂Cu₃O_{7â€“x} Film Growth by Transient Liquid-Assisted Growth. Journal of Physical Chemistry C, 2020, 124, 15574-15584.	1.5	9
8	Preparation of GdBa₂Cu₃O_{6+x} (GdBCO) precursor powder by sprayâ€drying a nitrate solution containing PEG. International Journal of Applied Ceramic Technology, 2020, 17, 1752-1760.	1.1	0
9	Pyrolysis study of solution-derived superconducting YBa₂Cu₃O₇films: disentangling the physico-chemical transformations. Journal of Materials Chemistry C, 2020, 8, 10266-10282.	2.7	8
10	Ultrafast transient liquid assisted growth of high current density superconducting films. Nature Communications, 2020, 11, 344.	5.8	39
11	Effect of triethanolamine on the pyrolysis of metal-propionate-based solutions. Journal of Analytical and Applied Pyrolysis, 2019, 143, 104685.	2.6	8
12	Using evolved gas analysis â€“ mass spectrometry to characterize adsorption on a nanoparticle surface. Nanoscale Advances, 2019, 1, 2740-2747.	2.2	4
13	Thermal decomposition of CuProp2: In-situ analysis of film and powder pyrolysis. Journal of Analytical and Applied Pyrolysis, 2019, 140, 312-320.	2.6	14
14	Radical and oxidative pathways in the pyrolysis of a barium propionate-acetate salt. Journal of Analytical and Applied Pyrolysis, 2019, 141, 104640.	2.6	13
15	Low temperature processing of solution-derived ceria deposits on flat surfaces of 3D-printed polyamide. Thin Solid Films, 2019, 685, 75-80.	0.8	2
16	Thermal decomposition of yttrium propionate: film and powder. Journal of Analytical and Applied Pyrolysis, 2018, 133, 225-233.	2.6	23
17	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine. Thermochimica Acta, 2018, 665, 92-101.	1.2	11
18	Nonlinear oscillatory mixing in the generalized Landau scenario. Physical Review E, 2018, 97, 052218.	0.8	3

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19	Fibre laser cutting of polycaprolactone sheet for stents manufacturing: A feasibility study. Optics and Laser Technology, 2017, 95, 113-123.	2.2	32
20	Synthesis, structural study, thermal, optical properties and characterization of the new compound [C 6 H 7 N 2 O 2] 3 TeCl 5 Â·2Cl. Chinese Chemical Letters, 2017, 28, 1773-1779.	4.8	3
21	Model-free isoconversional method applied to polymer crystallization governed by the Hoffman-Lauritzen kinetics. Polymer, 2017, 120, 111-118.	1.8	8
22	The critical condition for thermal explosion in an isoperibolic system. AICHE Journal, 2017, 63, 3979-3993.	1.8	9
23	Synthesis of LaFeO3 perovskite-type oxide via solid-state combustion of a cyano complex precursor: The effect of oxygen diffusion. Ceramics International, 2017, 43, 3156-3165.	2.3	19
24	Epitaxial superconducting GdBa₂Cu₃O_{7â^'Î´}/Gd₂O₃ nanocomposite thin films from advanced low-fluorine solutions. Superconductor Science and Technology, 2017, 30, 125010.	1.8	27
25	The critical conditions for thermal explosion in a system heated at a constant rate. Combustion and Flame, 2017, 186, 211-219.	2.8	21
26	Melting temperature of YBa2Cu3O7â^'x and GdBa2Cu3O7â^'x at subatmospheric partial pressure. Journal of Alloys and Compounds, 2017, 692, 787-792.	2.8	13
27	Thermal Gradients in Thermal Analysis Experiments. Hot Topics in Thermal Analysis and Calorimetry, 2017, , 345-362.	0.5	4
28	Synthesis of perovskite-type oxide, LaFeO₃, from coordination polymer precursor, La[Fe(CN)₆]·5H₂O. Journal of the Ceramic Society of Japan, 2016, 124, 7-12.	0.5	6
29	Solution design for low-fluorine trifluoroacetate route to YBa₂Cu₃O₇films. Superconductor Science and Technology, 2016, 29, 024002.	1.8	40
30	Isoconversional analysis of copper recrystallization. Journal of Thermal Analysis and Calorimetry, 2016, 125, 667-672.	2.0	19
31	Measuring thermal conductivity of powders with differential scanning calorimetry. Journal of Thermal Analysis and Calorimetry, 2016, 125, 571-577.	2.0	20
32	Self-propagating high-temperature synthesis of LaMO3 perovskite-type oxide using heteronuclearcyano metal complex precursors. Journal of Alloys and Compounds, 2015, 649, 1291-1299.	2.8	14
33	Thermal analysis of metal organic precursors for functional oxide preparation: Thin films versus powders. Thermochimica Acta, 2015, 601, 1-8.	1.2	31
34	Determination of thermal conductivity of powders in different atmospheres by differential scanning calorimetry. Journal of Thermal Analysis and Calorimetry, 2015, 121, 469-473.	2.0	9
35	The effect of volatiles on the measurement of the reaction heat by differential scanning calorimetry. Journal of Thermal Analysis and Calorimetry, 2015, 121, 187-194.	2.0	6
36	Exact analytical solution for the Kissinger equation: Determination of the peak temperature and general properties of thermally activated transformations. Thermochimica Acta, 2014, 598, 51-58.	1.2	51

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37	Thermal gradients in thermal analysis experiments: Criterions to prevent inaccuracies when determining sample temperature and kinetic parameters. Thermochimica Acta, 2014, 589, 37-46.	1.2	40
38	Addendum to â€œA simple kinetic method for the determination of the reaction model from non-isothermal experimentsâ€• Journal of Thermal Analysis and Calorimetry, 2013, 114, 457-457.	2.0	3
39	Measurement of the specific heat and determination of the thermodynamic functions of relaxed amorphous silicon. Journal of Applied Physics, 2013, 113, .	1.1	2
40	Thermoanalytical study of the decomposition of yttrium trifluoroacetate thin films. Thin Solid Films, 2013, 545, 200-204.	0.8	16
41	Thermal Analysis for Low Temperature Synthesis of Oxide Thin Films from Chemical Solutions. Journal of Physical Chemistry C, 2013, 117, 20133-20138.	1.5	42
42	Thermal decomposition of barium trifluoroacetate thin films. Thermochimica Acta, 2013, 556, 58-62.	1.2	19
43	Can the crystallization rate be independent from the crystallization enthalpy? The case of amorphous silicon. Journal of Physics Condensed Matter, 2012, 24, 095401.	0.7	3
44	Growth of epitaxial CeO₂ buffer layers by polymer assisted deposition. Materials Research Society Symposia Proceedings, 2012, 1449, 31.	0.1	7
45	Can We Trust on the Thermal Analysis of Metal Organic Powders for thin film preparation?. Materials Research Society Symposia Proceedings, 2012, 1449, 13.	0.1	6
46	The thermal decomposition of barium trifluoroacetate. Thermochimica Acta, 2012, 544, 77-83.	1.2	36
47	Evolution of yttrium trifluoroacetate during thermal decomposition. Journal of Thermal Analysis and Calorimetry, 2012, 108, 589-596.	2.0	45
48	Isoconversional analysis of solid-state transformations. Journal of Thermal Analysis and Calorimetry, 2012, 109, 183-191.	2.0	32
49	Non-isothermal model-free predictions. Journal of Thermal Analysis and Calorimetry, 2012, 108, 597-603.	2.0	18
50	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. Thin Solid Films, 2012, 520, 1949-1953.	0.8	29
51	The configurational energy gap between amorphous and crystalline silicon. Physica Status Solidi - Rapid Research Letters, 2011, 5, 361-363.	1.2	14
52	Isoconversional analysis of solid state transformations. Journal of Thermal Analysis and Calorimetry, 2011, 105, 757-766.	2.0	116
53	Isoconversional analysis of solid state transformations. Journal of Thermal Analysis and Calorimetry, 2011, 105, 767-773.	2.0	46
54	Decomposition processes and structural transformations of cerium propionate into nanocrystalline ceria at different oxygen partial pressures. Journal of Nanoparticle Research, 2011, 13, 4085-4096.	0.8	26

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55	Measurement by differential scanning calorimetry of specific heat capacity variation due to crystallization: Application to amorphous silicon. Thermochimica Acta, 2011, 522, 161-165.	1.2	9
56	Thermoanalytical study of the formation mechanism of yttria from yttrium acetate. Thermochimica Acta, 2011, 521, 84-89.	1.2	26
57	A simple kinetic method for the determination of the reaction model from non-isothermal experiments. Journal of Thermal Analysis and Calorimetry, 2010, 102, 615-625.	2.0	39
58	Relaxation and derelaxation of pure and hydrogenated amorphous silicon during thermal annealing experiments. Applied Physics Letters, 2010, 97, 031918.	1.5	10
59	Ene reactions between two alkynes? Doors open to thermally induced cycloisomerization of macrocyclic triynes and enediynes. Chemical Communications, 2010, 46, 2944.	2.2	23
60	Molecular hydrogen diffusion in nanostructured amorphous silicon thin films. Physical Review B, 2009, 80, .	1.1	10
61	Comment on â€œRelaxation Kinetics of Nanoscale Indents in a Polymer Glassâ€. Physical Review Letters, 2009, 103, 119801; author reply 119802.	2.9	5
62	Analytical solution for the Kissinger equation. Journal of Materials Research, 2009, 24, 3095-3098.	1.2	38
63	Characterization of amorphous and nanostructured Si films by differential scanning calorimetry. Thin Solid Films, 2009, 517, 6239-6242.	0.8	5
64	Structural relaxation kinetics for first- and second-order processes: Application to pure amorphous silicon. Acta Materialia, 2009, 57, 2098-2107.	3.8	16
65	Restricted Epitaxial Growth of Crystallites in Hydrogenated Nanocrystalline Silicon During Thermal Crystallization Experiments. Journal of Nanoscience and Nanotechnology, 2009, 9, 3700-3707.	0.9	1
66	Simple approximate analytical solution for nonisothermal singleâ€step transformations: Kinetic analysis. AICHE Journal, 2008, 54, 2145-2154.	1.8	23
67	Structural Differences between Open-Chain and Macrocyclic Triene Ligands for Palladium(0): Influence on the Stability and Catalytical Properties. Organometallics, 2008, 27, 5768-5776.	1.1	7
68	Quantification of the bond-angle dispersion by Raman spectroscopy and the strain energy of amorphous silicon. Journal of Applied Physics, 2008, 104, .	1.1	32
69	Solid-phase crystallization under continuous heating: Kinetic and microstructure scaling laws. Journal of Materials Research, 2008, 23, 418-426.	1.2	9
70	Cell size distribution in a random tessellation of space governed by the Kolmogorov-Johnson-Mehl-Avrami model: Grain size distribution in crystallization. Physical Review B, 2008, 78, .	1.1	32
71	Oxidation of silicon: Further tests for the interfacial silicon emission model. Journal of Applied Physics, 2007, 102, 054902.	1.1	14
72	Grain Size Control by Means of Solid Phase Crystallization of Amorphous Silicon. Materials Research Society Symposia Proceedings, 2007, 989, 17.	0.1	4

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73	Numerical model of solid phase transformations governed by nucleation and growth: Microstructure development during isothermal crystallization. Physical Review B, 2007, 75, .	1.1	48
74	The crystallization temperature of silicon nanoparticles. Nanotechnology, 2007, 18, 175705.	1.3	15
75	Kinetic study of the oxide-assisted catalyst-free synthesis of silicon nitride nanowires. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1307-1312.	0.8	13
76	Modification of the Kolmogorovâ€"Johnsonâ€"Mehlâ€"Avrami rate equation for non-isothermal experiments and its analytical solution. Acta Materialia, 2006, 54, 5573-5579.	3.8	164
77	Calorimetry of dehydrogenation and dangling-bond recombination in several hydrogenated amorphous silicon materials. Physical Review B, 2006, 73, .	1.1	21
78	Comment on â€œDynamics of thermal growth of silicon oxide films on Siâ€• Physical Review B, 2006, 74, .	1.1	5
79	Analysis of the sensitivity and sampleâ€"furnace thermal-lag of a differential thermal analyzer. Thermochimica Acta, 2005, 430, 115-122.	1.2	17
80	Anomalous crystallization of hydrogenated amorphous silicon during fast heating ramps. Journal of Materials Research, 2005, 20, 277-281.	1.2	3
81	Si3N4 single-crystal nanowires grown from silicon micro- and nanoparticles near the threshold of passive oxidation. Applied Physics Letters, 2005, 87, 192114.	1.5	36
82	Thermally Induced Structural Transformations on Polymorphous Silicon. Journal of Materials Research, 2005, 20, 2562-2567.	1.2	5
83	Passive-Oxidation Kinetics of SiC Microparticles. Journal of the American Ceramic Society, 2004, 87, 1301-1305.	1.9	32
84	Gas renewal in the horizontal furnace of a thermobalance. Thermochimica Acta, 2004, 412, 113-119.	1.2	2
85	Crystallization kinetics of hydrogenated amorphous silicon thick films grown by plasma-enhanced chemical vapour deposition. Applied Surface Science, 2004, 238, 165-168.	3.1	17
86	Si-N nanowire formation from Silicon nano and microparticles.. Materials Research Society Symposia Proceedings, 2003, 789, 18.	0.1	1
87	Calorimetry of hydrogen desorption froma-Si nanoparticles. Physical Review B, 2002, 65, .	1.1	15
88	Is sintering enhanced under non-isothermal conditions?. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2002, 337, 248-253.	2.6	14
89	Mechanical properties of nanometric structures of Si/SiC, C/SiC and C/SiN produced by PECVD. Diamond and Related Materials, 2001, 10, 1115-1120.	1.8	16
90	Thermal oxidation of polymer-like amorphous SixCyHwOz nanoparticles. Diamond and Related Materials, 2001, 10, 1295-1299.	1.8	5

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91	Enhancement of oxidation rate of a-Si nanoparticles during dehydrogenation. Applied Physics Letters, 2001, 79, 3705-3707.	1.5	17
92	Thermal Stabilization and Crystallization of Nanometric Particles of Si-C-N Produced by RF-Plasma Enhanced Chemical-Vapor-Deposition. Materials Research Society Symposia Proceedings, 2000, 609, 2451.	0.1	1
93	Thermal Oxidation of Si Nanoparticles Grown by Plasma-Enhanced CVD. Materials Research Society Symposia Proceedings, 2000, 609, 5111.	0.1	0
94	Surface analysis of nanostructured ceramic coatings containing silicon carbide nanoparticles produced by plasma modulation chemical vapour deposition. Thin Solid Films, 2000, 377-378, 495-500.	0.8	13
95	Thermal Analysis of a Polyethylene Glycol (PEG 4000): T-CR-T Diagram Construction. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 61, 711-718.	1.4	6
96	Full instability behavior ofN-dimensional dynamical systems with a one-directional nonlinear vector field. Physical Review E, 2000, 62, 333-348.	0.8	9
97	N-dimensional dynamical systems exploiting instabilities in full. Chaos, 2000, 10, 760.	1.0	7
98	Speed of wave-front solutions to hyperbolic reaction-diffusion equations. Physical Review E, 1999, 60, 5231-5243.	0.8	52
99	A Modified Method for T-CR-T Diagram Construction Application to Polyethylene Glycol. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 1998, 52, 765-772.	1.4	7
100	Role of symmetries in the transition to turbulence in optics. Physical Review A, 1998, 57, 580-584.	1.0	12
101	Gluing bifurcations in optothermal nonlinear devices. Physical Review E, 1998, 57, 5366-5377.	0.8	21
102	Experimental Analysis of Codimension-2 Bifurcations in a Periodically-Forced Opto-Thermal Oscillator. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1413-1435.	0.7	3
103	Homoclinic chaos in optothermal bistable devices. , 1996, , .		0
104	Equivalent low-order model for a nonlinear diffusion equation. Physica D: Nonlinear Phenomena, 1996, 95, 107-127.	1.3	15
105	Homoclinic dynamics in experimental Shilâ€™nikov attractors. Physical Review E, 1996, 53, 5627-5636.	0.8	18
106	Four Dimensional Nonlinear Dynamics in Optical Devices. , 1996, , .		0
107	Homoclinic phenomena in opto-thermal bistability with localized absorption. Physica D: Nonlinear Phenomena, 1995, 85, 509-547.	1.3	18
108	RÃ¶ssler chaos in opto-thermal bistable devices. Optics Communications, 1994, 113, 324-334.	1.0	13

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109	Flip-flop operation in opto-thermal bistable devices with localized absorption. Fiber and Integrated Optics, 1993, 12, 287-300.	1.7	0
110	Homoclinic bifurcations in thermo-optical bistability with localized absorption. Optics Communications, 1991, 82, 162-170.	1.0	11