

# J Farjas

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nonlinear complexification of periodic orbits in the generalized Landau scenario.. <i>Chaos</i> , <b>2022</b> , 32, 0231163	3.6	3
107	High Performance of Superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Thick Films Prepared by Single-Deposition Inkjet Printing. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 3948-3961	4	2
106	Relevance of the Formation of Intermediate Non-Equilibrium Phases in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> Film Growth by Transient Liquid-Assisted Growth. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 15574-15584	3.8	6
105	Preparation of GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>6+x</sub> (GdBCO) precursor powder by spray-drying a nitrate solution containing PEG. <i>International Journal of Applied Ceramic Technology</i> , <b>2020</b> , 17, 1752-1760	2	
104	Pyrolysis study of solution-derived superconducting YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films: disentangling the physico-chemical transformations. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 10266-10282	7.1	4
103	Ultrafast transient liquid assisted growth of high current density superconducting films. <i>Nature Communications</i> , <b>2020</b> , 11, 344	17.4	18
102	Thermal decomposition of cerium triethanolamine complexes. <i>Thermochimica Acta</i> , <b>2020</b> , 683, 178430	2.9	5
101	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> , <b>2020</b> , 142, 2087-2094	4.1	0
100	Elucidation of the decomposition reactions of low-fluorine YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> precursors during film pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2020</b> , 148, 104777	6	6
99	Application of thermal analysis and kinetic predictions to YBCO films prepared by chemical solution deposition methods. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 142, 2077-2086	4.1	1
98	Using evolved gas analysis [mass spectrometry to characterize adsorption on a nanoparticle surface. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 2740-2747	5.1	3
97	Thermal decomposition of CuProp <sub>2</sub> : In-situ analysis of film and powder pyrolysis. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 140, 312-320	6	9
96	Radical and oxidative pathways in the pyrolysis of a barium propionate-acetate salt. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 141, 104640	6	8
95	Low temperature processing of solution-derived ceria deposits on flat surfaces of 3D-printed polyamide. <i>Thin Solid Films</i> , <b>2019</b> , 685, 75-80	2.2	1
94	Effect of triethanolamine on the pyrolysis of metal-propionate-based solutions. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2019</b> , 143, 104685	6	3
93	Thermal decomposition of yttrium propionate: film and powder. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2018</b> , 133, 225-233	6	17
92	Thermogravimetric measurement of the equilibrium vapour pressure: Application to water and triethanolamine. <i>Thermochimica Acta</i> , <b>2018</b> , 665, 92-101	2.9	6

91	Nonlinear oscillatory mixing in the generalized Landau scenario. <i>Physical Review E</i> , <b>2018</b> , 97, 052218	2.4	2
90	Fibre laser cutting of polycaprolactone sheet for stents manufacturing: A feasibility study. <i>Optics and Laser Technology</i> , <b>2017</b> , 95, 113-123	4.2	22
89	Synthesis, structural study, thermal, optical properties and characterization of the new compound [C <sub>6</sub> H <sub>7</sub> N <sub>2</sub> O <sub>2</sub> ] <sub>3</sub> TeCl <sub>5</sub> ·Cl. <i>Chinese Chemical Letters</i> , <b>2017</b> , 28, 1773-1779	8.1	2
88	Model-free isoconversional method applied to polymer crystallization governed by the Hoffman-Lauritzen kinetics. <i>Polymer</i> , <b>2017</b> , 120, 111-118	3.9	4
87	The critical condition for thermal explosion in an isoperibolic system. <i>AIChE Journal</i> , <b>2017</b> , 63, 3979-3993	3.6	7
86	Synthesis of LaFeO <sub>3</sub> perovskite-type oxide via solid-state combustion of a cyano complex precursor: The effect of oxygen diffusion. <i>Ceramics International</i> , <b>2017</b> , 43, 3156-3165	5.1	12
85	Epitaxial superconducting GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /Gd <sub>2</sub> O <sub>3</sub> nanocomposite thin films from advanced low-fluorine solutions. <i>Superconductor Science and Technology</i> , <b>2017</b> , 30, 125010	3.1	23
84	The critical conditions for thermal explosion in a system heated at a constant rate. <i>Combustion and Flame</i> , <b>2017</b> , 186, 211-219	5.3	18
83	Melting temperature of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> and GdBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> at subatmospheric partial pressure. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 787-792	5.7	12
82	Thermal Gradients in Thermal Analysis Experiments. <i>Hot Topics in Thermal Analysis and Calorimetry</i> , <b>2017</b> , 345-362		4
81	Synthesis of perovskite-type oxide, LaFeO <sub>3</sub> , from coordination polymer precursor, La[Fe(CN) <sub>6</sub> ] <sub>n</sub> ·5H <sub>2</sub> O. <i>Journal of the Ceramic Society of Japan</i> , <b>2016</b> , 124, 7-12	1	4
80	Solution design for low-fluorine trifluoroacetate route to YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films. <i>Superconductor Science and Technology</i> , <b>2016</b> , 29, 024002	3.1	34
79	Isoconversional analysis of copper recrystallization. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 125, 667-672	4.1	11
78	Measuring thermal conductivity of powders with differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2016</b> , 125, 571-577	4.1	15
77	Determination of thermal conductivity of powders in different atmospheres by differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 469-473	4.1	8
76	The effect of volatiles on the measurement of the reaction heat by differential scanning calorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2015</b> , 121, 187-194	4.1	5
75	Self-propagating high-temperature synthesis of LaMO <sub>3</sub> perovskite-type oxide using heteronuclear cyano metal complex precursors. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 649, 1291-1299	5.7	12
74	Thermal analysis of metal organic precursors for functional oxide preparation: Thin films versus powders. <i>Thermochimica Acta</i> , <b>2015</b> , 601, 1-8	2.9	28

73	Thermal gradients in thermal analysis experiments: Criteria to prevent inaccuracies when determining sample temperature and kinetic parameters. <i>Thermochimica Acta</i> , <b>2014</b> , 589, 37-46	2.9	30
72	Exact analytical solution for the Kissinger equation: Determination of the peak temperature and general properties of thermally activated transformations. <i>Thermochimica Acta</i> , <b>2014</b> , 598, 51-58	2.9	44
71	Addendum to A simple kinetic method for the determination of the reaction model from non-isothermal experiments. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2013</b> , 114, 457-457	4.1	3
70	Measurement of the specific heat and determination of the thermodynamic functions of relaxed amorphous silicon. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 173515	2.5	1
69	Thermoanalytical study of the decomposition of yttrium trifluoroacetate thin films. <i>Thin Solid Films</i> , <b>2013</b> , 545, 200-204	2.2	15
68	Thermal Analysis for Low Temperature Synthesis of Oxide Thin Films from Chemical Solutions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 20133-20138	3.8	37
67	Thermal decomposition of barium trifluoroacetate thin films. <i>Thermochimica Acta</i> , <b>2013</b> , 556, 58-62	2.9	19
66	Synthesis of nanocrystalline ceria thin films by low-temperature thermal decomposition of Ce-propionate. <i>Thin Solid Films</i> , <b>2012</b> , 520, 1949-1953	2.2	27
65	The thermal decomposition of barium trifluoroacetate. <i>Thermochimica Acta</i> , <b>2012</b> , 544, 77-83	2.9	32
64	Evolution of yttrium trifluoroacetate during thermal decomposition. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 108, 589-596	4.1	37
63	Isoconversional analysis of solid-state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 109, 183-191	4.1	22
62	Non-isothermal model-free predictions. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 108, 597-603	4.1	14
61	Can the crystallization rate be independent from the crystallization enthalpy? The case of amorphous silicon. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 095401	1.8	2
60	Growth of epitaxial CeO <sub>2</sub> buffer layers by polymer assisted deposition. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1449, 31		7
59	Can We Trust on the Thermal Analysis of Metal Organic Powders for thin film preparation?. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1449, 13		6
58	The configurational energy gap between amorphous and crystalline silicon. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2011</b> , 5, 361-363	2.5	13
57	Isoconversional analysis of solid state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 757-766	4.1	94
56	Isoconversional analysis of solid state transformations. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 767-773	4.1	40

55	Decomposition processes and structural transformations of cerium propionate into nanocrystalline ceria at different oxygen partial pressures. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 4085-4096	2.3	25
54	Measurement by differential scanning calorimetry of specific heat capacity variation due to crystallization: Application to amorphous silicon. <i>Thermochimica Acta</i> , <b>2011</b> , 522, 161-165	2.9	9
53	Thermoanalytical study of the formation mechanism of yttria from yttrium acetate. <i>Thermochimica Acta</i> , <b>2011</b> , 521, 84-89	2.9	24
52	Relaxation and derelaxation of pure and hydrogenated amorphous silicon during thermal annealing experiments. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 031918	3.4	9
51	Ene reactions between two alkynes? Doors open to thermally induced cycloisomerization of macrocyclic triynes and enediynes. <i>Chemical Communications</i> , <b>2010</b> , 46, 2944-6	5.8	20
50	A simple kinetic method for the determination of the reaction model from non-isothermal experiments. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 102, 615-625	4.1	34
49	Molecular hydrogen diffusion in nanostructured amorphous silicon thin films. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	9
48	Comment on "relaxation kinetics of nanoscale indents in a polymer glass". <i>Physical Review Letters</i> , <b>2009</b> , 103, 119801; author reply 119802	7.4	5
47	Analytical solution for the Kissinger equation. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 3095-3098	2.5	31
46	Characterization of amorphous and nanostructured Si films by differential scanning calorimetry. <i>Thin Solid Films</i> , <b>2009</b> , 517, 6239-6242	2.2	4
45	Structural relaxation kinetics for first- and second-order processes: Application to pure amorphous silicon. <i>Acta Materialia</i> , <b>2009</b> , 57, 2098-2107	8.4	16
44	Restricted epitaxial growth of crystallites in hydrogenated nanocrystalline silicon during thermal crystallization experiments. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 3700-7	1.3	1
43	Structural Differences between Open-Chain and Macrocyclic Triene Ligands for Palladium(0): Influence on the Stability and Catalytical Properties. <i>Organometallics</i> , <b>2008</b> , 27, 5768-5776	3.8	6
42	Quantification of the bond-angle dispersion by Raman spectroscopy and the strain energy of amorphous silicon. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 073521	2.5	28
41	Solid-phase crystallization under continuous heating: Kinetic and microstructure scaling laws. <i>Journal of Materials Research</i> , <b>2008</b> , 23, 418-426	2.5	9
40	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> , <b>2008</b> , 78,	3.3	28
39	Simple approximate analytical solution for nonisothermal single-step transformations: Kinetic analysis. <i>AIChE Journal</i> , <b>2008</b> , 54, 2145-2154	3.6	23
38	Oxidation of silicon: Further tests for the interfacial silicon emission model. <i>Journal of Applied Physics</i> , <b>2007</b> , 102, 054902	2.5	10

37	Grain Size Control by Means of Solid Phase Crystallization of Amorphous Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 989, 17		3
36	Numerical model of solid phase transformations governed by nucleation and growth: Microstructure development during isothermal crystallization. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	46
35	The crystallization temperature of silicon nanoparticles. <i>Nanotechnology</i> , <b>2007</b> , 18, 175705	3.4	14
34	Calorimetry of dehydrogenation and dangling-bond recombination in several hydrogenated amorphous silicon materials. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	19
33	Comment on Dynamics of thermal growth of silicon oxide films on Si. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	5
32	Kinetic study of the oxide-assisted catalyst-free synthesis of silicon nitride nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1307-1312	1.6	13
31	Modification of the Kolmogorov-Johnson-Mehl-Avrami rate equation for non-isothermal experiments and its analytical solution. <i>Acta Materialia</i> , <b>2006</b> , 54, 5573-5579	8.4	139
30	Analysis of the sensitivity and sample furnace thermal-lag of a differential thermal analyzer. <i>Thermochimica Acta</i> , <b>2005</b> , 430, 115-122	2.9	15
29	Anomalous crystallization of hydrogenated amorphous silicon during fast heating ramps. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 277-281	2.5	3
28	Si <sub>3</sub> N <sub>4</sub> single-crystal nanowires grown from silicon micro- and nanoparticles near the threshold of passive oxidation. <i>Applied Physics Letters</i> , <b>2005</b> , 87, 192114	3.4	35
27	Thermally Induced Structural Transformations on Polymorphous Silicon. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2562-2567	2.5	4
26	Passive-Oxidation Kinetics of SiC Microparticles. <i>Journal of the American Ceramic Society</i> , <b>2004</b> , 87, 1301-1305	3.8	28
25	Gas renewal in the horizontal furnace of a thermobalance. <i>Thermochimica Acta</i> , <b>2004</b> , 412, 113-119	2.9	2
24	Crystallization kinetics of hydrogenated amorphous silicon thick films grown by plasma-enhanced chemical vapour deposition. <i>Applied Surface Science</i> , <b>2004</b> , 238, 165-168	6.7	17
23	Si-N nanowire formation from Silicon nano and microparticles.. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 789, 18		
22	Is sintering enhanced under non-isothermal conditions?. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 337, 248-253	5.3	12
21	Calorimetry of hydrogen desorption from a-Si nanoparticles. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	15
20	Enhancement of oxidation rate of a-Si nanoparticles during dehydrogenation. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 3705-3707	3.4	16

19	Mechanical properties of nanometric structures of Si/SiC, C/SiC and C/SiN produced by PECVD. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 1115-1120	3.5	15
18	Thermal oxidation of polymer-like amorphous SixCyHwOz nanoparticles. <i>Diamond and Related Materials</i> , <b>2001</b> , 10, 1295-1299	3.5	5
17	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> , <b>2000</b> , 609, 2451		1
16	Thermal Oxidation of Si Nanoparticles Grown by Plasma-Enhanced CVD. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 609, 5111		
15	Surface analysis of nanostructured ceramic coatings containing silicon carbide nanoparticles produced by plasma modulation chemical vapour deposition. <i>Thin Solid Films</i> , <b>2000</b> , 377-378, 495-500	2.2	11
14	Thermal Analysis of a Polyethylene Glycol (PEG 4000): T-CR-T Diagram Construction. <i>Magyar Áprilad Kélemléyek</i> , <b>2000</b> , 61, 711-718	0	6
13	Full instability behavior of N-dimensional dynamical systems with a one-directional nonlinear vector field. <i>Physical Review E</i> , <b>2000</b> , 62, 333-48	2.4	7
12	N-dimensional dynamical systems exploiting instabilities in full. <i>Chaos</i> , <b>2000</b> , 10, 760-770	3.3	6
11	Speed of wave-front solutions to hyperbolic reaction-diffusion equations. <i>Physical Review E</i> , <b>1999</b> , 60, 5231-43	2.4	48
10	A Modified Method for T-CR-T Diagram Construction Application to Polyethylene Glycol. <i>Magyar Áprilad Kélemléyek</i> , <b>1998</b> , 52, 765-772	0	6
9	Role of symmetries in the transition to turbulence in optics. <i>Physical Review A</i> , <b>1998</b> , 57, 580-584	2.6	11
8	Gluing bifurcations in optothermal nonlinear devices. <i>Physical Review E</i> , <b>1998</b> , 57, 5366-5377	2.4	20
7	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> , <b>1998</b> , 08, 1413-1435	2	3
6	Equivalent low-order model for a nonlinear diffusion equation. <i>Physica D: Nonlinear Phenomena</i> , <b>1996</b> , 95, 107-127	3.3	13
5	Homoclinic dynamics in experimental Shil'nikov attractors. <i>Physical Review E</i> , <b>1996</b> , 53, 5627-5636	2.4	16
4	Homoclinic phenomena in opto-thermal bistability with localized absorption. <i>Physica D: Nonlinear Phenomena</i> , <b>1995</b> , 85, 509-547	3.3	16
3	Rössler chaos in opto-thermal bistable devices. <i>Optics Communications</i> , <b>1994</b> , 113, 324-334	2	11
2	Flip-flop operation in opto-thermal bistable devices with localized absorption. <i>Fiber and Integrated Optics</i> , <b>1993</b> , 12, 287-300	0.8	

1 Homoclinic bifurcations in thermo-optical bistability with localized absorption. *Optics Communications*, **1991**, 82, 162-170

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