

Jiri Malek

List of Publications by Year in descending order

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110
papers

2,427
citations

236925

25
h-index

243625

44
g-index

110
all docs

110
docs citations

110
times ranked

1485
citing authors

#	ARTICLE	IF	CITATIONS
1	A computer program for kinetic analysis of non-isothermal thermoanalytical data. <i>Thermochimica Acta</i> , 1989, 138, 337-346.	2.7	201
2	A kinetic analysis of the curing reaction of an epoxy resin. <i>Thermochimica Acta</i> , 1993, 228, 47-60.	2.7	169
3	Applicability of Fraser's Suzuki function in kinetic analysis of complex crystallization processes. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 1045-1056.	3.6	129
4	Interpretation of crystallization kinetics results provided by DSC. <i>Thermochimica Acta</i> , 2011, 526, 237-251.	2.7	93
5	Distortion of the Arrhenius parameters by the inappropriate kinetic model function. <i>Thermochimica Acta</i> , 1991, 188, 333-336.	2.7	92
6	Empirical kinetic models in thermal analysis. <i>Thermochimica Acta</i> , 1992, 203, 25-30.	2.7	74
7	Description of enthalpy relaxation dynamics in terms of TNM model. <i>Journal of Non-Crystalline Solids</i> , 2013, 378, 186-195.	3.1	61
8	Is the original Kissinger equation obsolete today?. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1961-1967.	3.6	56
9	Biodegradable polydioxanone stents: a new option for therapy-resistant anastomotic strictures of the colon. <i>European Radiology</i> , 2011, 21, 1956-1961.	4.5	54
10	One-Dimensional qP-Wave Velocity Model of the Upper Crust for the West Bohemia/Vogtland Earthquake Swarm Region. <i>Studia Geophysica Et Geodaetica</i> , 2005, 49, 501-524.	0.5	53
11	PASSEQ 2006-2008: Passive seismic experiment in Trans-European Suture Zone. <i>Studia Geophysica Et Geodaetica</i> , 2008, 52, 439-448.	0.5	50
12	Is the ÅrestÅberggren equation a general expression of kinetic models?. <i>Thermochimica Acta</i> , 1991, 175, 305-309.	2.7	44
13	Extended study of crystallization kinetics for Se-Te glasses. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 111, 161-171.	3.6	44
14	A simple method of kinetic model discrimination. Part 1. Analysis of differential non-isothermal data. <i>Thermochimica Acta</i> , 1994, 236, 187-197.	2.7	43
15	Crystallization kinetics of a-Se. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 81-91.	3.6	43
16	Crystallization kinetics of amorphous Se. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 473-482.	3.6	41
17	Transfer of Protonated Anesthetics across the Water o-Nitrophenyl Octyl Ether Interface: Effect of the Ion Structure on the Transfer Kinetics and Pharmacological Activity.. <i>Analytical Sciences</i> , 1998, 14, 35-41.	1.6	39
18	Enthalpic structural relaxation in Te-Se glassy system. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 2163-2169.	3.1	39

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19	Late Cretaceous and Cenozoic dynamics of the Bohemian Massif inferred from the paleostress history of the Lusatian Fault Belt. <i>Journal of Geodynamics</i> , 2015, 87, 26-49.	1.6	39
20	Crystallization kinetics in Se-Te glassy system. <i>Journal of Non-Crystalline Solids</i> , 2011, 357, 3123-3129.	3.1	34
21	Enthalpy relaxation in Ge-Te glassy system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 113, 831-842.	3.6	31
22	Crystallization mechanisms occurring in the Se-Te glassy system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 155-166.	3.6	28
23	Rotaphone, a mechanical seismic sensor system for field rotation rate measurements and its in situ calibration. <i>Journal of Seismology</i> , 2012, 16, 603-621.	1.3	27
24	Crystallization kinetics of a-Ge. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 1363-1372.	3.6	27
25	Apparent activation energy of structural relaxation for Se ₇₀ Te ₃₀ glass. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 165-168.	3.1	26
26	Moment tensor inversion for two micro-earthquakes occurring inside the H ₂ gas storage facilities, Czech Republic. <i>Journal of Seismology</i> , 2013, 17, 557-577.	1.3	25
27	Crystal Growth Kinetics in Se-Te Bulk Glasses. <i>Crystal Growth and Design</i> , 2015, 15, 4287-4295.	3.0	25
28	New portable sensor system for rotational seismic motion measurements. <i>Review of Scientific Instruments</i> , 2010, 81, 084501.	1.3	24
29	A novel method to study crystallization of glasses. <i>Thermochimica Acta</i> , 2010, 511, 67-73.	2.7	23
30	Viscosity of chalcogenide glass-formers. <i>International Materials Reviews</i> , 2020, 65, 63-101.	19.3	23
31	Rotation, Strain, and Translation Sensors Performance Tests with Active Seismic Sources. <i>Sensors</i> , 2021, 21, 264.	3.8	23
32	Layered Velocity Models of the Western Bohemia Region. <i>Studia Geophysica Et Geodaetica</i> , 2000, 44, 475-490.	0.5	22
33	Rotaphone, a Self-Calibrated Six-Degree-of-Freedom Seismic Sensor and Its Strong-Motion Records. <i>Seismological Research Letters</i> , 2013, 84, 737-744.	1.9	22
34	Amorphous-to-crystalline transition in Te-doped Ge ₂ Sb ₂ Se ₅ glass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 117, 1073-1083.	3.6	21
35	Six-degree-of-freedom near-source seismic motions II: examples of real seismogram analysis and S-wave velocity retrieval. <i>Journal of Seismology</i> , 2015, 19, 511-539.	1.3	21
36	Glass transition in polymers: (ln)correct determination of activation energy. <i>Polymer</i> , 2013, 54, 1504-1511.	3.8	20

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37	Crystallization behavior of GeSb ₂ Se ₄ chalcogenide glass. Journal of Non-Crystalline Solids, 2014, 388, 46-54.	3.1	19
38	Calorimetric and high-resolution transmission electron microscopy study of nanocrystallization in zirconia gel. Journal of Materials Research, 1999, 14, 1834-1843.	2.6	18
39	Crystallization behavior of (GeS ₂) _{0.1} (Sb ₂ S ₃) _{0.9} glass. Journal of Non-Crystalline Solids, 2008, 354, 3354-3361.	3.1	18
40	Electrical conductivity and crystallization kinetics in Te-Se glassy system. Journal of Applied Physics, 2012, 111, .	2.5	18
41	Architecture of thrust faults with alongstrike variations in fault-plane dip: anatomy of the Lusatian Fault, Bohemian Massif. Journal of Geosciences (Czech Republic), 2014, , 183-208.	0.6	18
42	Azimuthal variation of Pg velocity in the Moldanubian, Czech Republic: observations based on a multi-azimuthal common-shot experiment. Tectonophysics, 2004, 387, 189-203.	2.2	17
43	Amorphous-to-crystalline transition in Ge ₈ Sb _(2-x) Bi _x Te ₁₁ phase-change materials for data recording. Journal of Alloys and Compounds, 2016, 674, 63-72.	5.5	17
44	Enthalpic relaxation in Ge ₂ Sb ₂ Se ₅ glass. Journal of Non-Crystalline Solids, 2012, 358, 804-809.	3.1	16
45	Shear wave crustal velocity model of the Western Bohemian Massif from Love wave phase velocity dispersion. Journal of Seismology, 2011, 15, 81-104.	1.3	15
46	Note: Rotaphone, a new self-calibrated six-degree-of-freedom seismic sensor. Review of Scientific Instruments, 2012, 83, 086108.	1.3	15
47	Crystal growth kinetics in GeS ₂ amorphous thin films. Journal of Thermal Analysis and Calorimetry, 2014, 118, 775-781.	3.6	15
48	Voltammetry of Protonated Anesthetics at a Liquid Membrane: Evaluation of the Drug Propagation. Electroanalysis, 2000, 12, 901-904.	2.9	14
49	Evaluation of glass-stability criteria for chalcogenide glasses: Effect of experimental conditions. Journal of Non-Crystalline Solids, 2015, 413, 39-45.	3.1	14
50	Electrical and optical properties of Ge ₂₀ Sb ₁₅ ^x Bi _x Bi ₆₅ glasses. Journal of Materials Science, 1986, 21, 488-492.	3.7	13
51	Vertically Inhomogeneous Models of the Upper Crustal Structure in the West-Bohemian Seismoactive Region Inferred from the Celebration 2000 Refraction Data. Studia Geophysica Et Geodaetica, 2004, 48, 709-730.	0.5	13
52	Crystal growth kinetics in (GeS ₂) _{0.2} (Sb ₂ S ₃) _{0.8} glass. Thermochimica Acta, 2006, 446, 121-127.	2.7	13
53	Isometric method: Efficient tool for solving non-linear inverse problems. Studia Geophysica Et Geodaetica, 2007, 51, 469-490.	0.5	13
54	Crystallization kinetics of Seâ€Te thin films. Thin Solid Films, 2014, 571, 121-126.	1.8	13

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55	Extended Study on Crystal Growth and Viscosity in Ge ₄₀ Sb ₄₀ Se Bulk Glasses and Thin Films. Journal of Physical Chemistry B, 2017, 121, 7978-7986.	2.6	13
56	Homogeneous Velocity Models of The West Bohemian Swarm Region Obtained By Grid Search. Studia Geophysica Et Geodaetica, 2000, 44, 158-174.	0.5	12
57	Crystallization behavior in Se ₉₀ Te ₁₀ and Se ₈₀ Te ₂₀ thin films. Journal of Applied Physics, 2014, 115, .	2.5	12
58	Importance of proper baseline identification for the subsequent kinetic analysis of derivative kinetic data. Journal of Thermal Analysis and Calorimetry, 2016, 124, 1717-1725.	3.6	12
59	Short term pharmacological immobilization in macaque monkeys. Veterinary Anaesthesia and Analgesia, 2011, 38, 490-493.	0.6	11
60	Velocity model of the Hronov-Poáň Fault Zone from Rayleigh wave dispersion. Journal of Seismology, 2014, 18, 617-635.	1.3	11
61	Crystal growth in (GeS ₂) _x (Sb ₂ S ₃) _{1-x} thin films. Journal of Non-Crystalline Solids, 2015, 410, 7-13.	3.1	11
62	Crystal Growth Velocity in As ₂ Se ₃ Supercooled Liquid. Crystal Growth and Design, 2017, 17, 4990-4999.	3.0	11
63	Comparison of Lateral Crystal Growth in Selenium Thin Films and Surface of Bulk Samples. Crystal Growth and Design, 2018, 18, 4103-4110.	3.0	11
64	Influence of environment and grinding on the crystallisation mechanism of ZrO ₂ gel. Journal of Physics and Chemistry of Solids, 2007, 68, 824-829.	4.0	10
65	Crystal Growth Kinetics and Viscous Behavior in Ge ₂ Sb ₂ Se ₅ Undercooled Melt. Journal of Physical Chemistry B, 2016, 120, 7998-8006.	2.6	10
66	Correlation of structural, thermo-kinetic and thermo-mechanical properties of the Ge ₁₁ Ga ₁₁ Te ₇₈ glass. Journal of Non-Crystalline Solids, 2016, 445-446, 7-14.	3.1	10
67	Dilatometric measurement of structural relaxation in Ge ₃₈ S ₆₂ glass. Journal of Non-Crystalline Solids, 1994, 172-174, 635-639.	3.1	9
68	Crystallization in glasses monitored by thermomechanical analysis. Journal of Thermal Analysis and Calorimetry, 2011, 105, 565-570.	3.6	9
69	Crystal growth kinetics of Sb ₂ S ₃ in Ge ₄₀ Sb ₄₀ S amorphous thin films. Journal of Thermal Analysis and Calorimetry, 2012, 110, 275-280.	3.6	9
70	Crystallization kinetics of a-Se, part 4: thin films. Philosophical Magazine, 2014, 94, 3036-3051.	1.6	9
71	Crystallization behaviour of Ge ₁₇ Sb ₂₃ Se ₆₀ thin films. Philosophical Magazine, 2014, 94, 1301-1310.	1.6	9
72	Six-degree-of-freedom near-source seismic motions I: rotation-to-translation relations and synthetic examples. Journal of Seismology, 2015, 19, 491-509.	1.3	9

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73	Quantifying capability of a local seismic network in terms of locations and focal mechanism solutions of weak earthquakes. <i>Journal of Seismology</i> , 2016, 20, 93-106.	1.3	9
74	Correlation between the structure and relaxation dynamics of $(\text{GeS}_2)_y(\text{Sb}_2\text{S}_3)_{1-y}$ glassy matrices. <i>Journal of Non-Crystalline Solids</i> , 2018, 479, 113-119.	3.1	9
75	Influence of sample form and thermal history on relaxation response. <i>Thermochimica Acta</i> , 2010, 507-508, 71-76.	2.7	8
76	Enthalpy relaxation kinetics of GeTe 4 glass. <i>Journal of Non-Crystalline Solids</i> , 2015, 422, 51-56.	3.1	8
77	Small-aperture-array translational and rotational seismograms from distant sources – An example of the Jan Mayen Mw 6.8 of 30 August 2012 earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2016, 256, 1-12.	1.9	8
78	Heat capacity and thermodynamic properties of germanium disulfide at temperatures from $T=(2 \text{ to } T_j) \text{ ETQ}0 \text{ } 0 \text{ } 0 \text{ } \text{rgBT} / \text{Overlock } 10 \text{ Tf } 5$	2.0	7
79	As ₂ Se ₃ melt crystallization studied by quadratic approximation of nucleation and growth rate temperature dependence. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 971-977.	3.6	7
80	Determination of midazolam in rabbit plasma by GC and LC following nasal and ocular administration. <i>Journal of Separation Science</i> , 2013, 36, 3366-3371.	2.5	7
81	Crystallization processes in Ge ₂ Sb ₂ Se ₄ Te glass. <i>Materials Research Bulletin</i> , 2015, 61, 207-214.	5.2	7
82	How nucleation-growth kinetics is influenced by initial degree of material crystallinity. <i>Thermochimica Acta</i> , 2016, 631, 28-35.	2.7	7
83	Combined dilatometric and calorimetric study of kinetic processes occurring in Ge ₂₀ Te ₇₆ Se ₄ infrared bulk glass. <i>Journal of Non-Crystalline Solids</i> , 2016, 432, 493-498.	3.1	7
84	Ground fissures within the Main Ethiopian Rift: Tectonic, lithological and piping controls. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 3158-3174.	2.5	7
85	Crystal growth in Se ₇₀ Te ₃₀ thin films followed by SEM and <i>in situ</i> XRD. <i>Journal of Applied Physics</i> , 2016, 120, .	2.5	6
86	Influence of particle size on crystallization and relaxation behavior of Ge ₂₀ Se ₄ Te ₇₆ glass for infrared optics. <i>Journal of Non-Crystalline Solids</i> , 2016, 433, 75-81.	3.1	6
87	The Mechanism of Microearthquakes Related to a Gas Storage Using Differently Constrained Source Models: A Case Study of the Hájje Location, Czech Republic. <i>Pure and Applied Geophysics</i> , 2017, 174, 177-195.	1.9	6
88	Attenuation in West Bohemia: Evidence of High Attenuation in the Nová Kostel Focal Zone and Temporal Change Consistent with CO ₂ Degassing. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 450-458.	2.3	6
89	Rotaphone-CY: The Newest Rotaphone Model Design and Preliminary Results from Performance Tests with Active Seismic Sources. <i>Sensors</i> , 2021, 21, 562.	3.8	6
90	The effect of the novel partial α_2 -adrenoceptor agonist naphthylmedetomidine on the basic cardiorespiratory parameters and behavior in rhesus monkeys. <i>Journal of Medical Primatology</i> , 2009, 38, 241-246.	0.6	5

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91	Wadati method as a simple tool to study seismically active fault zones: a case study from the West-Bohemia/Vogtland region, central Europe. <i>Studia Geophysica Et Geodaetica</i> , 2016, 60, 248-267.	0.5	5
92	Small-aperture seismic array data processing using a representation of seismograms at zero-crossing points. <i>Physics of the Earth and Planetary Interiors</i> , 2018, 280, 53-68.	1.9	5
93	Comparative Measurements of Local Seismic Rotations by Three Independent Methods. <i>Sensors</i> , 2020, 20, 5679.	3.8	5
94	Variations in discharge and temperature of mineral springs at the FrantiÅkovy LáznĚ spa, Czech Republic, during a nearby earthquake swarm in 1985/1986. <i>Studia Geophysica Et Geodaetica</i> , 2008, 52, 589-606.	0.5	4
95	Enthalpy relaxation kinetics of Ge ₂₀ Te _(80-y) Se _y far-infrared glasses in the glass transition range. <i>Philosophical Magazine</i> , 2016, 96, 1623-1631.	1.6	4
96	Seismic structure beneath the Reykjanes Peninsula, southwest Iceland, inferred from array-derived Rayleigh wave dispersion. <i>Tectonophysics</i> , 2019, 753, 1-14.	2.2	4
97	The effect of site (deltoid or gluteus muscle) of intramuscular administration of anaesthetic drugs on the course of immobilisation in macaque monkeys (<i>Macaca mulatta</i>). <i>Acta Veterinaria Brno</i> , 2012, 81, 207-210.	0.5	3
98	Site-specific probabilistic seismic hazard of Prague (Czech Republic). <i>Journal of Seismology</i> , 2019, 23, 1223-1232.	1.3	3
99	Eigenoscillations and Stability of Rocking Stones: The Case Study of "The Hus Pulpit" in The Central Bohemian Pluton. <i>Pure and Applied Geophysics</i> , 2020, 177, 1907-1916.	1.9	3
100	Seismic model and geological interpretation of the basement beneath the DoupovskĚ Hory Volcanic Complex (NW Czech Republic). <i>Acta Geophysica</i> , 2011, 59, 597-617.	2.0	2
101	Verification of the shallow seismic crustal structure of the western KruÅk Hory crystalline unit, Czech Republic. <i>Studia Geophysica Et Geodaetica</i> , 2013, 57, 507-519.	0.5	2
102	Compilation of the seismic hazard maps in Bosnia and Herzegovina. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 141, 106500.	3.8	2
103	Crystallization in Ge ₂₀ Bi ₁₅ S ₆₅ glass. <i>Thermochimica Acta</i> , 1985, 93, 259-262.	2.7	1
104	The effect of the novel alpha ₂ -adrenoceptor agonist naphthylmedetomidine on pulse rate, arterial blood pressure and sedation in rabbits. <i>Veterinary Anaesthesia and Analgesia</i> , 2009, 36, 144-150.	0.6	1
105	Anomalous propagation of refracted waves beneath the Orlick water reservoir, Czech Republic. <i>Studia Geophysica Et Geodaetica</i> , 2010, 54, 389-401.	0.5	1
106	40th Anniversary of the establishment of Czech Group for Thermal Analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 1561-1562.	3.6	1
107	Mid-European seismic attenuation anomaly. <i>Tectonophysics</i> , 2017, 712-713, 557-577.	2.2	1
108	Reply to "Comment on "Attenuation in West Bohemia: Evidence of High Attenuation in the NovĚ Kostel Focal Zone and Temporal Change Consistent with CO ₂ Degassing" by M. WcisÅo, L. Eisner, J. MÅlek, T. Fischer, J. VlĚek, and G. Kletetschka" by Morozov. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 375-380.	2.3	1

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109	Endogenous ligands of benzodiazepine binding site have inverse agonistic properties. Medical Hypotheses, 2013, 81, 1075-1077.	1.5	0
110	Focal Mechanisms of West Bohemia, Central Europe, Earthquakesâ€”End of May 2014: Evidence of Volume Changes. Seismological Research Letters, 0, , .	1.9	0