

# Alan K Burnham

## List of Publications by Year in descending order

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176  
papers

13,540  
citations

53751

45  
h-index

22147

113  
g-index

180  
all docs

180  
docs citations

180  
times ranked

7691  
citing authors

#	ARTICLE	IF	CITATIONS
1	ICTAC Kinetics Committee recommendations for performing kinetic computations on thermal analysis data. <i>Thermochimica Acta</i> , 2011, 520, 1-19.	1.2	4,299
2	Computational aspects of kinetic analysis. <i>Thermochimica Acta</i> , 2000, 355, 125-143.	1.2	746
3	A chemical kinetic model of vitrinite maturation and reflectance. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 2649-2657.	1.6	565
4	ICTAC Kinetics Committee recommendations for analysis of multi-step kinetics. <i>Thermochimica Acta</i> , 2020, 689, 178597.	1.2	482
5	Global Kinetic Analysis of Complex Materials. <i>Energy &amp; Fuels</i> , 1999, 13, 1-22.	2.5	474
6	Developing KH <sub>2</sub> PO <sub>4</sub> and KD <sub>2</sub> PO <sub>4</sub> crystals for the world's most power laser. <i>International Materials Reviews</i> , 2002, 47, 113-152.	9.4	425
7	Measurement of the dispersion in polarizability anisotropies. <i>Journal of Chemical Physics</i> , 1975, 63, 3321-3326.	1.2	333
8	Analysis of chemical reaction kinetics using a distribution of activation energies and simpler models. <i>Energy &amp; Fuels</i> , 1987, 1, 153-161.	2.5	316
9	Comparison of methods for measuring kerogen pyrolysis rates and fitting kinetic parameters. <i>Energy &amp; Fuels</i> , 1987, 1, 452-458.	2.5	250
10	Computational aspects of kinetic analysis.. <i>Thermochimica Acta</i> , 2000, 355, 165-170.	1.2	229
11	Assessment of various kinetic models for the pyrolysis of a microgranular cellulose. <i>Thermochimica Acta</i> , 2004, 417, 79-89.	1.2	214
12	Identification and estimation of neutral organic contaminants in potable water. <i>Analytical Chemistry</i> , 1972, 44, 139-142.	3.2	212
13	A comparison of isoconversional and model-fitting approaches to kinetic parameter estimation and application predictions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 479-490.	2.0	196
14	Estimation of local and nonlocal magnetic susceptibilities and a comparison of magnetic and thermodynamic criteria of aromaticity for 2-methoxypyridine and 1-methyl-2-pyridone. <i>Journal of the American Chemical Society</i> , 1977, 99, 1836-1844.	6.6	176
15	Development of a detailed model of petroleum formation, destruction, and expulsion from lacustrine and marine source rocks. <i>Organic Geochemistry</i> , 1990, 16, 27-39.	0.9	139
16	Critical Review of the Global Chemical Kinetics of Cellulose Thermal Decomposition. <i>Energy &amp; Fuels</i> , 2015, 29, 2906-2918.	2.5	138
17	Mathematical model of oil generation, degradation, and expulsion. <i>Energy &amp; Fuels</i> , 1990, 4, 132-146.	2.5	132
18	Temperature and pressure dependence of n-hexadecane cracking. <i>Organic Geochemistry</i> , 1995, 23, 941-953.	0.9	115

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19	Surface chemistry and trimethylsilyl functionalization of StÄrber silica sols. Journal of Non-Crystalline Solids, 2003, 316, 349-363.	1.5	111
20	The local electric field. I. The effect on isotropic and anisotropic Rayleigh scattering. Journal of Chemical Physics, 1975, 62, 3289-3297.	1.2	110
21	Pyrolysis kinetics for lacustrine and marine source rocks by programmed micropyrolysis. Energy & Fuels, 1991, 5, 192-204.	2.5	106
22	PMOD: a flexible model of oil and gas generation, cracking, and expulsion. Organic Geochemistry, 1992, 19, 161-172.	0.9	104
23	On the mechanism of kerogen pyrolysis. Fuel, 1984, 63, 1353-1356.	3.4	99
24	An Appropriate Kinetic Model for Well-Preserved Algal Kerogens. Energy & Fuels, 1996, 10, 49-59.	2.5	97
25	Pyrolysis of Argonne premium coals: activation energy distributions and related chemistry. Energy & Fuels, 1989, 3, 42-55.	2.5	91
26	Green River Oil Shale Pyrolysis: Semi-Open Conditions. Energy & Fuels, 2013, 27, 6447-6459.	2.5	89
27	Laser-induced damage in deuterated potassium dihydrogen phosphate. Applied Optics, 2003, 42, 5483.	2.1	85
28	A Distributed Activation Energy Model of Thermodynamically Inhibited Nucleation and Growth Reactions and Its Application to the Î²-Î³ Phase Transition of HMX. Journal of Physical Chemistry B, 2004, 108, 19432-19441.	1.2	82
29	Title is missing!. Magyar AprÃ³szaki KÃ¶zlemÃ©nyek, 2000, 60, 895-908.	1.4	80
30	Petroleum generation kinetics: Single versus multiple heating-ramp open-system pyrolysis. AAPG Bulletin, 2015, 99, 591-616.	0.7	79
31	Global Chemical Kinetics of Fossil Fuels. , 2017, , .		79
32	Biological markers from Green River kerogen decomposition. Geochimica Et Cosmochimica Acta, 1982, 46, 1243-1251.	1.6	66
33	Comparison of kinetic analysis of source rocks and kerogen concentrates. Organic Geochemistry, 1995, 23, 11-19.	0.9	66
34	Hydrous pyrolysis of New Albany and Phosphoria Shales: production kinetics of carboxylic acids and light hydrocarbons and interactions between the inorganic and organic chemical systems. Organic Geochemistry, 1997, 27, 477-496.	0.9	66
35	Gas evolution during pyrolysis of various Colorado oil shales. Fuel, 1982, 61, 1188-1196.	3.4	65
36	Kinetics of thermal degradation of explosive binders Viton A, Estane, and Kel-F. Thermochemica Acta, 2005, 426, 85-92.	1.2	61

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37	A test of the parallel reaction model using kinetic measurements on hydrous pyrolysis residues. <i>Organic Geochemistry</i> , 1995, 23, 931-939.	0.9	60
38	Kinetic models of vitrinite, kerogen, and bitumen reflectance. <i>Organic Geochemistry</i> , 2019, 131, 50-59.	0.9	60
39	Effects of gas environment on mineral reactions in Colorado oil shale. <i>Fuel</i> , 1980, 59, 871-877.	3.4	58
40	Further comparison of methods for measuring kerogen pyrolysis rates and fitting kinetic parameters. <i>Organic Geochemistry</i> , 1988, 13, 839-845.	0.9	58
41	Decomposition kinetics and mechanism of n-hexadecane-1,2-13C2 and dodec-1-ene-1,2-13C2 doped in petroleum and n-hexadecane. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3725-3737.	1.6	56
42	Analysis of oil shale and petroleum source rock pyrolysis by triple quadrupole mass spectrometry: comparisons of gas evolution at the heating rate of 10.degree.C/min. <i>Energy &amp; Fuels</i> , 1991, 5, 507-523.	2.5	53
43	Pyrolysis Decomposition Kinetics of Cellulose-Based Materials by Constant Heating Rate Micropyrolysis. <i>Energy &amp; Fuels</i> , 1997, 11, 88-97.	2.5	53
44	Porosity and permeability of Green River oil shale and their changes during retorting. <i>Fuel</i> , 2017, 203, 208-213.	3.4	51
45	A historical and current perspective on predicting thermal cookoff behavior. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 407-415.	2.0	49
46	On the validity of the Pristane Formation Index. <i>Geochimica Et Cosmochimica Acta</i> , 1989, 53, 1693-1697.	1.6	48
47	Semi-Open Pyrolysis of Oil Shale from the Garden Gulch Member of the Green River Formation. <i>Energy &amp; Fuels</i> , 2014, 28, 7426-7439.	2.5	46
48	Light scattering studies of orientational pair correlations in liquids composed of anisometric molecules. <i>Journal of Chemical Physics</i> , 1977, 66, 605-616.	1.2	45
49	Pressure-Dependent Decomposition Kinetics of the Energetic Material HMX up to 3.6 GPa. <i>Journal of Physical Chemistry A</i> , 2009, 113, 13548-13555.	1.1	44
50	Molecular zeeman effect and magnetic susceptibility anisotropies of oxazole and isoxazole. Magnetic measure of aromatic character. <i>Journal of the American Chemical Society</i> , 1974, 96, 7394-7396.	6.6	43
51	Acid demineralization with critical point drying: A method for kerogen isolation that preserves microstructure. <i>Fuel</i> , 2014, 135, 492-497.	3.4	43
52	Pyrolysis kinetics for Green River oil shale from the saline zone. <i>Fuel</i> , 1983, 62, 1199-1204.	3.4	42
53	Guidelines for kinetic input to petroleum system models from open-system pyrolysis. <i>Marine and Petroleum Geology</i> , 2018, 92, 979-986.	1.5	41
54	Oil evolution from a self-purging reactor: kinetics and composition at 2.degree.C/min and 2.degree.C/h. <i>Energy &amp; Fuels</i> , 1991, 5, 205-214.	2.5	40

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55	Total Organic Carbon and Formation Evaluation with Wireline Logs in the Green River Oil Shale. , 2011, , .		40
56	Insight into Polyethylene and Polypropylene Pyrolysis: Global and Mechanistic Models. Energy & Fuels, 2021, 35, 6765-6775.	2.5	40
57	Kinetics of Colorado oil shale pyrolysis in a fluidized-bed reactor. Fuel, 1986, 65, 218-222.	3.4	39
58	Reaction kinetics between CO <sub>2</sub> and oil-shale residual carbon. 1. Effect of heating rate on reactivity. Fuel, 1979, 58, 285-292.	3.4	37
59	Oil and gas evolution kinetics for oil shale and petroleum source rocks determined from pyrolysis-TQMS data at two heating rates. Energy & Fuels, 1992, 6, 468-474.	2.5	36
60	Method for reducing the effect of environmental contamination of sol-gel optical coatings. , 1999, 3492, 220.		34
61	Use and misuse of logistic equations for modeling chemical kinetics. Journal of Thermal Analysis and Calorimetry, 2017, 127, 1107-1116.	2.0	34
62	Pyrolysis kinetics and maturation of coals from the San Juan basin. Energy & Fuels, 1993, 7, 610-619.	2.5	33
63	Kinetic analysis of California petroleum source rocks by programmed temperature micropyrolysis. Organic Geochemistry, 1995, 23, 109-120.	0.9	33
64	Detailed chemical kinetics study of the role of pressure in butane pyrolysis. Industrial & Engineering Chemistry Research, 1992, 31, 37-45.	1.8	32
65	Kerr constants, depolarization ratios, and hyperpolarizabilities of substituted methanes. Journal of Chemical Physics, 1977, 67, 4990-4995.	1.2	31
66	Methods for mitigating surface damage growth in NIF final optics. , 2002, 4679, 23.		30
67	Quantitative Thermodynamic Analysis of Sublimation Rates Using an Atomic Force Microscope. Journal of Physical Chemistry B, 2007, 111, 9182-9185.	1.2	30
68	High-Pressure Pyrolysis of Green River Oil Shale. ACS Symposium Series, 1983, , 335-351.	0.5	29
69	Identification by <sup>13</sup> C n.m.r. of carbon types in shale oil and their relation to pyrolysis conditions. Fuel, 1984, 63, 909-914.	3.4	29
70	Improving 351-nm damage performance of large-aperture fused silica and DKDP optics. , 2002, , .		29
71	Obtaining reliable phenomenological chemical kinetic models for real-world applications. Thermochimica Acta, 2014, 597, 35-40.	1.2	29
72	A comparison of effective polarizabilities from electro-optical experiments using microscopic and macroscopic theories of the local electric field. Journal of Chemical Physics, 1980, 73, 4822-4831.	1.2	28

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73	Determination of Kinetic Parameters for the Dehydration of Calcium Oxalate Monohydrate by Diffuse Reflectance FT-IR Spectroscopy. <i>Applied Spectroscopy</i> , 1994, 48, 561-568.	1.2	28
74	A Simple Kinetic Model of Oil Generation, Vaporization, Coking, and Cracking. <i>Energy &amp; Fuels</i> , 2015, 29, 7156-7167.	2.5	27
75	Determination of sulfur-containing gases from oil shale pyrolysis by triple quadrupole mass spectrometry. <i>Analytical Chemistry</i> , 1984, 56, 390-395.	3.2	26
76	Exploring the physical, chemical and thermal characteristics of a new potentially insensitive high explosive RX-55-AE-5. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 465-473.	2.0	26
77	Unraveling the Kinetics of Petroleum Destruction by Using 1,2- <sup>13</sup> C Isotopically Labeled Dopants. <i>Energy &amp; Fuels</i> , 1995, 9, 190-191.	2.5	25
78	An nth-order Gaussian energy distribution model for sintering. <i>Chemical Engineering Journal</i> , 2005, 108, 47-50.	6.6	25
79	Impact of Laboratory-Induced Thermal Maturity on Asphaltene Molecular Structure. <i>Energy &amp; Fuels</i> , 2016, 30, 7025-7036.	2.5	25
80	Mechanisms to explain damage growth in optical materials. , 2001, 4347, 277.		23
81	Application of Global Kinetic Models to HMX $\beta \rightarrow \gamma$ Transition and Cookoff Processes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 1575-1584.	1.1	23
82	Reaction kinetics between CO <sub>2</sub> and oil-shale residual carbon. 2. Partial-pressure and catalytic-mineral effects. <i>Fuel</i> , 1979, 58, 713-718.	3.4	21
83	Pyrolysis kinetics applied to prediction of oil generation in the Maracaibo Basin, Venezuela. <i>Organic Geochemistry</i> , 1990, 16, 189-196.	0.9	21
84	Coefficient of Thermal Expansion of the Beta and Delta Polymorphs of HMX. <i>Propellants, Explosives, Pyrotechnics</i> , 2005, 30, 344-350.	1.0	21
85	Petroleum generation kinetics: Single versus multiple heating-ramp open-system pyrolysis: Reply. <i>AAPG Bulletin</i> , 2016, 100, 690-694.	0.7	21
86	Surface defect generation in optical materials under high fluence laser irradiation in vacuum. <i>Electronics Letters</i> , 2000, 36, 566.	0.5	20
87	Oxidation kinetics for thin rare-earth metal films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 1713-1716.	0.9	19
88	Comparison of kinetic and thermodynamic parameters of single crystal pentaerythritol tetranitrate using atomic force microscopy and thermogravimetric analysis: Implications on coarsening mechanisms. <i>Journal of Applied Physics</i> , 2009, 105, 104312.	1.1	19
89	Oil, bitumen, and other confusing concepts: What do lab experiments really tell us?. <i>AAPG Bulletin</i> , 2018, 102, 653-669.	0.7	19
90	Reaction kinetics between steam and oil-shale residual carbon. <i>Fuel</i> , 1979, 58, 719-723.	3.4	18

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91	Fabrication of polyvinyl alcohol coated polystyrene shells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 3417-3421.	0.9	18
92	Comments on "The effects of the mineral matrix on the determination of kinetic parameters using modified Rock-Eval pyrolysis" by H. Dembicki Jr, and the resulting comment by R. Pelet. <i>Organic Geochemistry</i> , 1994, 21, 985-986.	0.9	18
93	Modeling and Experiments of X-Ray Ablation of National Ignition Facility First Wall Materials. <i>Fusion Science and Technology</i> , 1996, 30, 757-763.	0.6	18
94	Thermodynamic analysis of pure and impurity doped pentaerythritol tetranitrate crystals grown at room temperature. <i>Journal of Thermal Analysis and Calorimetry</i> , 2007, 89, 475-478.	2.0	18
95	Permeability and Porosity Evolution of Organic-Rich Shales from the Green River Formation as a Result of Maturation. <i>SPE Journal</i> , 2020, 25, 1377-1405.	1.7	18
96	Evaluation of B <sub>4</sub> C as an Ablator Material for NIF Capsules. <i>Fusion Science and Technology</i> , 1997, 31, 456-462.	0.6	17
97	Thermal dealkylation of dodecylbenzene and dodecylcyclohexane. <i>Organic Geochemistry</i> , 1998, 28, 755-758.	0.9	17
98	Effect of vacuum on the occurrence of UV-induced surface photoluminescence, transmission loss, and catastrophic surface damage. , 2000, 4134, 243.		17
99	Vapor Pressure and Sublimation Rate of Molecular Crystals: A Role of Internal Degrees of Freedom. <i>Journal of Physical Chemistry B</i> , 2007, 111, 14290-14294.	1.2	17
100	Introduction to Chemical Kinetics. , 2017, , 25-74.		17
101	Effect of pressure on TATB and LX-17 thermal decomposition. <i>Thermochimica Acta</i> , 2021, 699, 178908.	1.2	17
102	Shale oil cracking kinetics and diagnostics. <i>Industrial &amp; Engineering Chemistry Process Design and Development</i> , 1985, 24, 381-386.	0.6	16
103	Hypervelocity shrapnel damage assessment in the nif target chamber. <i>International Journal of Impact Engineering</i> , 1999, 23, 933-944.	2.4	16
104	Results of pulse-scaling experiments on rapid-growth DKDP triplers using the Optical Sciences Laser at 351 nm. , 2001, , .		16
105	Evolution of a solid state laser. , 2007, 6552, 24.		16
106	Chemistry and Kinetics of Oil Shale Retorting. <i>ACS Symposium Series</i> , 2010, , 115-134.	0.5	16
107	An LX-10 Kinetic Model Calibrated Using Simulations of Multiple Small-Scale Thermal Safety Tests. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9005-9011.	1.1	15
108	AMSO's Novel Approach to In-Situ Oil Shale Recovery. <i>ACS Symposium Series</i> , 2010, , 149-160.	0.5	15

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109	A Thermoplasticity Model for Oil Shale. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 677-688.	2.6	15
110	Simple Relative Sorptivity Model of Petroleum Expulsion. <i>Energy &amp; Fuels</i> , 2017, 31, 9308-9318.	2.5	15
111	Experimental Investigation of the Thermal Decomposition Pathways and Kinetics of TATB by Isotopic Substitution. <i>Propellants, Explosives, Pyrotechnics</i> , 2021, 46, 1352-1366.	1.0	14
112	Methods for mitigating growth of laser-initiated surface damage on DKDP optics at 351 nm. , 2003, , .		13
113	Thermomechanical properties of the Garden Gulch Member of the Green River Formation. <i>Fuel</i> , 2018, 219, 477-491.	3.4	13
114	Reactivity of Paper Residues Produced by a Hydrothermal Pretreatment Process for Municipal Solid Wastes. <i>Energy &amp; Fuels</i> , 1997, 11, 98-106.	2.5	12
115	<title>Rapid growth of very large KDP and KD*P crystals in support of the National Ignition Facility</title>. , 2000, , .		12
116	Differences in bulk damage probability distributions between tripler and z-cuts of KDP and DKDP at 355 nm. , 2001, , .		12
117	From optics to upscaled thermal conductivity: Green River oil shale. <i>Fuel</i> , 2016, 183, 489-500.	3.4	12
118	On solar thermal processing and retorting of oil shale. <i>Energy</i> , 1989, 14, 667-674.	4.5	11
119	Effect of thermal annealing and second harmonic generation on bulk damage performance of rapid-growth KDP type-I doublers at 1064 nm. , 2001, , .		11
120	Results of raster-scan laser conditioning studies on DKDP triplers using Nd:YAG and excimer lasers. , 2002, 4679, 368.		11
121	Quantification of kerogen content in organic-rich shales from optical photographs. <i>Fuel</i> , 2016, 177, 63-75.	3.4	11
122	Analysis, occurrence, and reactions of dawsonite in AMSO well CH-1. <i>Fuel</i> , 2015, 144, 259-263.	3.4	10
123	Achieving and maintaining cleanliness in NIF amplifiers. , 1999, 3492, 609.		8
124	Investigation of fluorescence microscopy as a tool for noninvasive detection and imaging of damage precursors at 351 nm. , 2002, , .		8
125	Evaporation from the (110) surface of PETN. <i>Journal of Crystal Growth</i> , 2008, 310, 3812-3819.	0.7	8
126	Quantification of organic content in shales via near-infrared imaging: Green River Formation. <i>Fuel</i> , 2017, 208, 337-352.	3.4	8



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127	Reply to comments by S. B. Nielsen and T. Barth on "A chemical kinetic model of vitrinite maturation and reflectance". <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 643-644.	1.6	7
128	Transport properties of hydrogen isotopes in boron carbide structures. <i>Journal of Nuclear Materials</i> , 1999, 266-269, 819-824.	1.3	7
129	Low-temperature growth of DKDP for improving laser-induced damage resistance at 350 nm. , 2001, 4347, 373.		7
130	Development and Evaluation of First Wall Materials for the National Ignition Facility. <i>Fusion Science and Technology</i> , 1996, 30, 730-735.	0.6	7
131	SO2 emissions from the oxidation of retorted oil shale. <i>Fuel</i> , 1982, 61, 781-782.	3.4	6
132	Intelligent Signal Processing for Detection System Optimization. <i>Analytical Chemistry</i> , 2005, 77, 4051-4057.	3.2	6
133	Properties of CP: Coefficient of Thermal Expansion, Decomposition Kinetics, Reaction to Spark, Friction and Impact. <i>Propellants, Explosives, Pyrotechnics</i> , 2006, 31, 239-245.	1.0	6
134	Response to statements by Professor ÅestÅ;k concerning logistic equations in kinetics. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 1127-1129.	2.0	6
135	Historical Perspective on the Maturation of Modeling Coal and Kerogen Pyrolysis. <i>Energy &amp; Fuels</i> , 2021, 35, 10451-10460.	2.5	6
136	Carbon Dioxide Emissions from Oil Shale Derived Liquid Fuels. <i>ACS Symposium Series</i> , 2010, , 219-248.	0.5	5
137	Modeling petroleum generation, retention, and expulsion from the Vaca Muerta Formation, NeuquÃ©n Basin, Argentina: Part I. integrating compositional kinetics and basin modeling. <i>Marine and Petroleum Geology</i> , 2021, 123, 104743.	1.5	5
138	Chemical Kinetics and Oil Shale Process Design. , 1995, , 263-276.		5
139	Heat of combustion of Green River oil shale. <i>Industrial &amp; Engineering Chemistry Process Design and Development</i> , 1984, 23, 234-236.	0.6	4
140	Performance of bare and sol-gel-coated DKDP crystal surfaces exposed to multiple 351-nm laser pulses in vacuum and air. , 2002, , .		4
141	Simultaneous determination of diffusion and sublimation kinetics at nanoscale: Pentaerythritol tetranitrate. <i>Applied Physics Letters</i> , 2013, 102, 163104.	1.5	4
142	Structures of Coal, Kerogen, and Asphaltenes. , 2017, , 75-105.		4
143	Multiscale Characterization of Spatial Heterogeneity of Petroleum Source Rocks via Near-Infrared Spectroscopy. , 2017, , .		4
144	Target Area Design Issues for Implementing Direct Drive on the National Ignition Facility. <i>Fusion Science and Technology</i> , 1996, 30, 457-463.	0.6	4

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145	Kerogen model breakdown: Comments to Lerche (1991) and Liu and Lerche (1990). <i>Mathematical Geosciences</i> , 1993, 25, 81-89.	0.9	3
146	Relationship between Hydrous and Ordinary Pyrolysis. , 1995, , 211-227.		3
147	Experimental and Analytical Studies of Louvered First-Wall Systems for NIF. <i>Fusion Science and Technology</i> , 1998, 34, 459-463.	0.6	3
148	Model-Based Processing of Microcantilever Sensor Arrays. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 1379-1391.	1.7	3
149	Kinetics of Propane Cracking Related to Its Use as a Heat-Transfer Fluid. <i>Energy &amp; Fuels</i> , 2015, 29, 711-716.	2.5	3
150	Van Krevelen Diagrams. <i>Techniques in Dentistry and Oral &amp; Maxillofacial Surgery</i> , 2018, , 1-5.	0.0	3
151	Confinement of Ignition and Yield on the National Ignition Facility. <i>Fusion Science and Technology</i> , 1996, 30, 504-511.	0.6	3
152	Heats of combustion of retorted and burnt Colorado oil shale. <i>Industrial &amp; Engineering Chemistry Process Design and Development</i> , 1982, 21, 485-489.	0.6	2
153	Thin film contamination effects on laser-induced damage of fused silica surfaces at 355 nm. , 1998, 3244, 499.		2
154	Identification and elimination of fluorescent surface-damage precursors on DKDP optics. , 2003, , .		2
155	Calibration Methods for the Extended Prout-Tompkins Chemical Kinetics Model and Derived Cookoff Parameters for RDX, HMX, LX-10 and PBXN-109. , 2007, , 625.		2
156	A Multi-Measurement Core-Log Integration for Advanced Formation Evaluation of Source Rock Formations: A Green River Case study. , 2013, , .		2
157	Hierarchical Coarsening of Simulation Model for In-Situ Upgrading Process. , 2017, , .		2
158	Permeability and Porosity Evolution of Organic Rich Shales as a Result of Heating. , 2019, , .		2
159	Scaling analysis of coupled compaction, kerogen conversion, and petroleum expulsion during geological maturation. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107285.	2.1	2
160	Calibration of Chemical Kinetic Models Using Simulations of Small-Scale Cookoff Experiments. , 2008, , .		2
161	Occurrence of Biomarkers in Green River Shale Oil. <i>ACS Symposium Series</i> , 1983, , 433-456.	0.5	1
162	Comments on "Sulphur Isotope Composition of H <sub>2</sub> S Evolved During Nonisothermal Pyrolysis of Sulphur-Containing Materials" by H.R. Krouse, R.G.S. Ritchie and R.S. Roche. <i>Journal of Analytical and Applied Pyrolysis</i> , 1988, 14, 1-2.	2.6	1

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163	Overenergetic Oversight at DOE. Physics Today, 1991, 44, 13-15.	0.3	1
164	Symposium on New Insights into the Generation and Stability of Oil and Gas from Laboratory to Field Studies: An Introduction. Energy & Fuels, 1996, 10, 2-2.	2.5	1
165	<title>Lifetime survivability of contaminated target-chamber optics</title>. , 1997, 2966, 463.		1
166	Thin film contamination effects on laser-induced damage of fused silica surfaces at 355 nm. , 1999, 3492, 212.		1
167	Constraints on target chamber first wall and target designs that will enable NIF debris shields to survive. , 1999, 3492, 730.		1
168	Laser-induced material modification in the bulk KDP crystals. , 2000, 3902, 428.		1
169	Pyrolysis in Open Systems. , 2017, , 107-169.		1
170	Pyrolysis in Closed Systems. , 2017, , 205-272.		1
171	Pyrolysis in Semi-Open Systems. , 2017, , 171-203.		1
172	Review: Richard Morris Hunt by Paul R. Baker. Journal of the Society of Architectural Historians, 1980, 39, 331-332.	0.1	0
173	Gas cell for on-line transmission Fourier transform infrared spectrometry. Vibrational Spectroscopy, 1993, 4, 365-371.	1.2	0
174	Comments on Lerche (1993) and Liu and Lerche (1993). Mathematical Geosciences, 1995, 27, 693-701.	0.9	0
175	Management of unconverted light for the National Ignition Facility target chamber. , 1999, 3492, 718.		0
176	Applications to Fossil Fuel Processes. , 2017, , 273-312.		0