

# Yuri Bedjanian

## List of Publications by Year in descending order

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64  
papers

1,118  
citations

393982

19  
h-index

433756

31  
g-index

64  
all docs

64  
docs citations

64  
times ranked

905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-Pressure Study of the Reaction of Cl Atoms with Isoprene. <i>Journal of Physical Chemistry A</i> , 1998, 102, 953-959.	1.1	79
2	Heterogeneous reaction of ozone with hydrocarbon flame soot. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1181-1191.	1.3	69
3	Kinetics of Halogen Oxide Radicals in the Stratosphere. <i>Chemical Reviews</i> , 2003, 103, 4639-4656.	23.0	65
4	Interaction of NO <sub>2</sub> with TiO <sub>2</sub> Surface Under UV Irradiation: Products Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 1758-1764.	1.1	62
5	Heterogeneous Interaction of H <sub>2</sub> O <sub>2</sub> with TiO <sub>2</sub> Surface under Dark and UV Light Irradiation Conditions. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8191-8200.	1.1	54
6	Heterogeneous Reaction of NO <sub>2</sub> with Hydrocarbon Flame Soot. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10807-10817.	1.1	52
7	Kinetics of the reactions of soot surface-bound polycyclic aromatic hydrocarbons with the OH radicals. <i>Atmospheric Environment</i> , 2010, 44, 1754-1760.	1.9	46
8	Experimental study of the interaction of HO <sub>2</sub> radicals with soot surface. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 334-341.	1.3	45
9	Laboratory study of the interaction of HO <sub>2</sub> radicals with the NaCl, NaBr, MgCl <sub>2</sub> ·6H <sub>2</sub> O and sea salt surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7896.	1.3	42
10	Experimental Study of the Reactions of OH Radicals with Propane, <i>n</i> -Pentane, and <i>n</i> -Heptane over a Wide Temperature Range. <i>International Journal of Chemical Kinetics</i> , 2015, 47, 629-637.	1.0	37
11	Reactive Uptake of HONO to TiO <sub>2</sub> Surface: "Dark" Reaction. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3665-3672.	1.1	30
12	Kinetics and Mechanism of the IO + BrO Reaction. <i>Journal of Physical Chemistry A</i> , 1998, 102, 10501-10511.	1.1	28
13	Heterogeneous Interaction of H <sub>2</sub> O <sub>2</sub> with Arizona Test Dust. <i>Journal of Physical Chemistry A</i> , 2014, 118, 441-448.	1.1	26
14	Rate Constants for the Reactions I + OCIO, I + ClO, Cl + I <sub>2</sub> , and Cl + IO and Heat of Formation of IO Radicals. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15130-15136.	2.9	25
15	Kinetics and Products of Heterogeneous Reaction of HONO with Fe <sub>2</sub> O <sub>3</sub> and Arizona Test Dust.. <i>Environmental Science &amp; Technology</i> , 2013, 47, 6325-6331.	4.6	25
16	Interaction of OH Radicals with Arizona Test Dust: Uptake and Products. <i>Journal of Physical Chemistry A</i> , 2013, 117, 393-400.	1.1	24
17	Kinetics and products of HONO interaction with TiO <sub>2</sub> surface under UV irradiation. <i>Atmospheric Environment</i> , 2013, 67, 203-210.	1.9	23
18	Uptake of hydrogen peroxide on the surface of Al <sub>2</sub> O <sub>3</sub> and Fe <sub>2</sub> O <sub>3</sub> . <i>Atmospheric Environment</i> , 2013, 77, 1-8.	1.9	23

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19	Kinetic Study of the Reactions of BrO Radicals with HO <sub>2</sub> and DO <sub>2</sub> . Journal of Physical Chemistry A, 2001, 105, 3167-3175.	1.1	21
20	Low-Pressure Study of the Reactions of Br Atoms with Alkenes. 1. Reaction with Propene. Journal of Physical Chemistry A, 1998, 102, 5867-5875.	1.1	20
21	Reactive uptake of HONO on aluminium oxide surface. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 250, 50-57.	2.0	19
22	Kinetics and mechanism of the reaction of OH with ClO. International Journal of Chemical Kinetics, 2001, 33, 587-599.	1.0	16
23	Kinetics and Mechanism of the O Atom Reaction with Dimethyl Sulfoxide. Journal of Physical Chemistry A, 2003, 107, 5404-5411.	1.1	16
24	Experimental Study of the Reactions of Limonene with OH and OD Radicals: Kinetics and Products. Journal of Physical Chemistry A, 2014, 118, 9482-9490.	1.1	16
25	Kinetic and mechanistic study of the F atom reaction with nitrous acid. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 168, 103-108.	2.0	15
26	Kinetics and Mechanism of the OH and OD Reactions with BrO. Journal of Physical Chemistry A, 2001, 105, 6154-6166.	1.1	14
27	Mineral Oxides Change the Atmospheric Reactivity of Soot: NO <sub>2</sub> Uptake under Dark and UV Irradiation Conditions. Journal of Physical Chemistry A, 2013, 117, 12897-12911.	1.1	14
28	Thermal Decomposition of Isopropyl Nitrate: Kinetics and Products. Journal of Physical Chemistry A, 2016, 120, 8037-8043.	1.1	14
29	Reaction of O( <sup>3</sup> P) with C <sub>3</sub> H <sub>6</sub> : Yield of the Reaction Products as a Function of Temperature. Journal of Physical Chemistry A, 2017, 121, 1553-1562.	1.1	12
30	Temperature-Dependent Rate Constant for the Reaction of Hydroxyl Radical with 3-Hydroxy-3-methyl-2-butanone. Journal of Physical Chemistry A, 2019, 123, 10446-10453.	1.1	11
31	Rate constants of the reactions of O( <sup>3</sup> P) atoms with Br <sub>2</sub> and NO <sub>2</sub> over the temperature range 220-950 K. International Journal of Chemical Kinetics, 2019, 51, 476-483.	1.0	11
32	Adsorption of water vapor on MgCl <sub>2</sub> ·6H <sub>2</sub> O salt surface. Atmospheric Environment, 2011, 45, 2373-2378.	1.9	10
33	Kinetic and mechanistic study of the X and XO (X = Cl, Br) reactions with dimethyl sulfoxide. Physical Chemistry Chemical Physics, 2003, 5, 2828-2835.	1.3	9
34	Kinetics and Products of the Reactions of Fluorine Atoms with ClNO and Br <sub>2</sub> from 295 to 950 K. Journal of Physical Chemistry A, 2017, 121, 8341-8347.	1.1	9
35	Disproportionation Channel of the Self-reaction of Hydroxyl Radical, OH + OH → H <sub>2</sub> O + O, Revisited. Journal of Physical Chemistry A, 2020, 124, 3993-4005.	1.1	9
36	Rate constants for the reactions of F atoms with H <sub>2</sub> and D <sub>2</sub> over the temperature range 220-600 K. International Journal of Chemical Kinetics, 2021, 53, 527-535.	1.0	9

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37	Kinetics and mechanism of the reaction of Cl atoms with HO <sub>2</sub> radicals. International Journal of Chemical Kinetics, 2001, 33, 317-327.	1.0	8
38	Kinetics and Products of the Reactions of Ethyl and <i>n</i> -Propyl Nitrates with OH Radicals. International Journal of Chemical Kinetics, 2016, 48, 822-829.	1.0	8
39	Reaction of O( <sup>3</sup> P) with C <sub>2</sub> H <sub>4</sub> : Yield of the Reaction Products as a Function of Temperature. Journal of Physical Chemistry A, 2016, 120, 9063-9070.	1.1	8
40	Rate Constants of the Reactions of O( <sup>3</sup> P) Atoms with Ethene and Propene over the Temperature Range 230–900 K. International Journal of Chemical Kinetics, 2017, 49, 53-60.	1.0	8
41	Investigation of the Photochemical Reactivity of Soot Particles Derived from Biofuels Toward NO <sub>2</sub> . A Kinetic and Product Study. Journal of Physical Chemistry A, 2015, 119, 2006-2015.	1.1	7
42	Gas-Phase Reaction of Hydroxyl Radical with <i>p</i> -Cymene over an Extended Temperature Range. Journal of Physical Chemistry A, 2015, 119, 11076-11083.	1.1	7
43	Reactions of OH radicals with 2-methyl-1-butyl, neopentyl and 1-hexyl nitrates. Structure-activity relationship for gas-phase reactions of OH with alkyl nitrates: An update. Atmospheric Environment, 2018, 180, 167-172.	1.9	7
44	Reaction F + C <sub>2</sub> H <sub>4</sub> : Rate Constant and Yields of the Reaction Products as a Function of Temperature over 298–950 K. Journal of Physical Chemistry A, 2018, 122, 3156-3162.	1.1	7
45	Thermal decomposition of <i>n</i> -propyl and <i>n</i> -butyl nitrates: Kinetics and products. Journal of Analytical and Applied Pyrolysis, 2017, 124, 576-583.	2.6	6
46	Experimental Study of the Reaction of Isopropyl Nitrate with OH Radicals: Kinetics and Products. International Journal of Chemical Kinetics, 2015, 47, 42-49.	1.0	5
47	Temperature-Dependent Kinetic Study of the Reaction of Hydroxyl Radicals with Hydroxyacetone. Journal of Physical Chemistry A, 2020, 124, 2863-2870.	1.1	5
48	Gas-Phase Rate Coefficient of OH + 1,2-Epoxybutane Determined between 220 and 950 K. ACS Earth and Space Chemistry, 2021, 5, 960-968.	1.2	5
49	Temperature Dependence of the Rate Constant for the Reaction F(2P) + Cl <sub>2</sub> → FCl + Cl at T = 180–360 K. Journal of Physical Chemistry A, 2004, 108, 1726-1730.	1.1	4
50	Temperature-dependent rate constant for the reaction of F atoms with HNO <sub>3</sub> . International Journal of Chemical Kinetics, 2019, 51, 753-759.	1.0	4
51	Kinetics of the reactions of OH radicals with <i>n</i> -butyl, isobutyl, <i>n</i> -pentyl and 3-methyl-1-butyl nitrates. Atmospheric Environment, 2017, 155, 29-34.	1.9	3
52	Kinetic and Mechanistic Study of the Thermal Decomposition of Ethyl Nitrate. International Journal of Chemical Kinetics, 2017, 49, 354-362.	1.0	3
53	Rate Constant of the Reaction of OH Radicals with HBr over the Temperature Range 235–960 K. Journal of Physical Chemistry A, 2021, 125, 1754-1759.	1.1	3
54	Rate constant of the reaction of F atoms with methane over the temperature range 220–960 K. Chemical Physics Letters, 2021, 770, 138458.	1.2	3

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55	Reaction Rate Coefficient of OH Radicals with <i>n</i> -Butanol as a Function of Temperature. ACS Omega, 2021, 6, 18123-18134.	1.6	3
56	Rate constants for the reaction of SO with NO <sub>2</sub> over the temperature range 220–960 K. International Journal of Chemical Kinetics, 0, , .	1.0	3
57	Experimental Study of the Reaction of O( <sup>3</sup> P) with Carbonyl Sulfide between 220 and 960 K. Journal of Physical Chemistry A, 2022, 126, 4080-4086.	1.1	3
58	Reaction of Limonene with F <sub>2</sub> : Rate Coefficient and Products. Journal of Physical Chemistry A, 2014, 118, 10233-10239.	1.1	2
59	Kinetics and Products of the Reactions of F <sub>2</sub> with BrAtom and Br <sub>2</sub> . International Journal of Chemical Kinetics, 2018, 50, 425-434.	1.0	2
60	Temperature-dependent rate constants for the reactions of chlorine atom with methanol and Br <sub>2</sub> . International Journal of Chemical Kinetics, 2020, 52, 310-318.	1.0	2
61	Rate constant and products of the reaction of O( <sup>3</sup> P) atoms with thiirane over the temperature range 220–950 K. International Journal of Chemical Kinetics, 2022, 54, 552-558.	1.0	2
62	Kinetics and Products of the Reaction of OH Radicals with ClNO from 220 to 940 K. Journal of Physical Chemistry A, 2018, 122, 916-922.	1.1	0
63	Kinetic study of the F <sub>2</sub> +C <sub>2</sub> H <sub>4</sub> reaction: Disagreement between theory and experiment resolved?. Chemical Physics Letters, 2019, 722, 85-89.	1.2	0
64	Rate constant of the BrO+BrO reaction over the temperature range 220–950 K. International Journal of Chemical Kinetics, 2020, 52, 319-328.	1.0	0