

# Vasileios Kyriakou

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5787968/publications.pdf>

Version: 2024-02-01

38  
papers

1,939  
citations

393982

19  
h-index

329751

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2600  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress in the Electrochemical Synthesis of Ammonia. <i>Catalysis Today</i> , 2017, 286, 2-13.	2.2	502
2	An Electrochemical Haber-Bosch Process. <i>Joule</i> , 2020, 4, 142-158.	11.7	325
3	<i>In Situ</i> Observation of Nanoparticle Exsolution from Perovskite Oxides: From Atomic Scale Mechanistic Insight to Nanostructure Tailoring. <i>ACS Nano</i> , 2019, 13, 12996-13005.	7.3	144
4	Electrochemical Synthesis of Ammonia in Solid Electrolyte Cells. <i>Frontiers in Energy Research</i> , 2014, 2, .	1.2	99
5	Effect of support nature on the cobalt-catalyzed CO <sub>2</sub> hydrogenation. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 21, 562-571.	3.3	91
6	Carbon dioxide hydrogenation over supported Au nanoparticles: Effect of the support. <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 19, 247-256.	3.3	57
7	Solid Electrolytes: Applications in Heterogeneous Catalysis and Chemical Cogeneration. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 431-472.	1.8	55
8	Ammonia synthesis at atmospheric pressure in a BaCe <sub>0.2</sub> Zr <sub>0.7</sub> Y <sub>0.1</sub> O <sub>2.9</sub> solid electrolyte cell. <i>Solid State Ionics</i> , 2015, 275, 110-116.	1.3	55
9	Methane steam reforming at low temperatures in a BaZr <sub>0.7</sub> Ce <sub>0.2</sub> Y <sub>0.1</sub> O <sub>2.9</sub> proton conducting membrane reactor. <i>Applied Catalysis B: Environmental</i> , 2016, 186, 1-9.	10.8	55
10	Co-electrolysis of H <sub>2</sub> O and CO <sub>2</sub> on exsolved Ni nanoparticles for efficient syngas generation at controllable H <sub>2</sub> /CO ratios. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117950.	10.8	53
11	Symmetrical Exsolution of Rh Nanoparticles in Solid Oxide Cells for Efficient Syngas Production from Greenhouse Gases. <i>ACS Catalysis</i> , 2020, 10, 1278-1288.	5.5	52
12	Electrochemical enhancement of ammonia synthesis in a BaZr <sub>0.7</sub> Ce <sub>0.2</sub> Y <sub>0.1</sub> O <sub>2.9</sub> solid electrolyte cell. <i>Solid State Ionics</i> , 2016, 288, 357-362.	1.3	50
13	Plasma Activated Electrochemical Ammonia Synthesis from Nitrogen and Water. <i>ACS Energy Letters</i> , 2021, 6, 313-319.	8.8	44
14	Effect of carbon type on the performance of a direct or hybrid carbon solid oxide fuel cell. <i>RSC Advances</i> , 2014, 4, 18792-18800.	1.7	42
15	Plasma-Activated Electrolysis for Cogeneration of Nitric Oxide and Hydrogen from Water and Nitrogen. <i>ACS Energy Letters</i> , 2019, 4, 2091-2095.	8.8	35
16	Highly active and stable TiO <sub>2</sub> -supported Au nanoparticles for CO <sub>2</sub> reduction. <i>Catalysis Communications</i> , 2017, 98, 52-56.	1.6	29
17	Reaction Rate Enhancement During the Electrocatalytic Synthesis of Ammonia in a BaZr <sub>0.7</sub> Ce <sub>0.2</sub> Y <sub>0.1</sub> O <sub>2.9</sub> Solid Electrolyte Cell. <i>Topics in Catalysis</i> , 2015, 58, 1193-1201.	1.3	27
18	Direct utilization of lignite coal in a Co/CeO <sub>2</sub> /YSZ/Ag solid oxide fuel cell. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 14353-14363.	3.8	21

#	ARTICLE	IF	CITATIONS
19	Chemical reactors with high temperature proton conductors as a main component: Progress in the past decade. <i>Solid State Ionics</i> , 2017, 306, 76-81.	1.3	20
20	Plasma Driven Exsolution for Nanoscale Functionalization of Perovskite Oxides. <i>Small Methods</i> , 2021, 5, e2100868.	4.6	19
21	Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis. <i>Electrochemistry Communications</i> , 2017, 84, 40-44.	2.3	17
22	Enhancement of Ammonia Synthesis on a Co <sub>3</sub> Mo <sub>3</sub> N-Ag Electrocatalyst in a K <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> Solid Electrolyte Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8844-8851.	3.2	17
23	A protonic ceramic membrane reactor for the production of hydrogen from coal steam gasification. <i>Journal of Membrane Science</i> , 2018, 553, 163-170.	4.1	16
24	Production of H <sub>2</sub> and C <sub>2</sub> hydrocarbons from methane in a proton conducting solid electrolyte cell using a Au <sup>5+</sup> Na <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> anode. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 16636-16641.	3.8	14
25	Electrochemical promotion of catalytic reactions: Thermodynamic analysis and calculation of the limits in Faradaic Efficiency. <i>Solid State Ionics</i> , 2013, 231, 58-62.	1.3	14
26	Effect of fuel thermal pretreatment on the electrochemical performance of a direct lignite coal fuel cell. <i>Solid State Ionics</i> , 2016, 288, 140-146.	1.3	14
27	Enhancing the Electrocatalytic Activity of Redox Stable Perovskite Fuel Electrodes in Solid Oxide Cells by Atomic Layer-Deposited Pt Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12646-12654.	3.2	13
28	CO <sub>2</sub> conversion via coupled plasma-electrolysis process. <i>Journal of CO<sub>2</sub> Utilization</i> , 2022, 57, 101904.	3.3	13
29	Production of C <sub>2</sub> hydrocarbons and H <sub>2</sub> from CH <sub>4</sub> in a proton conducting cell. <i>Solid State Ionics</i> , 2012, 225, 219-222.	1.3	10
30	Carbon to electricity in a solid oxide fuel cell combined with an internal catalytic gasification process. <i>Chinese Journal of Catalysis</i> , 2015, 36, 509-516.	6.9	10
31	The combined impact of carbon type and catalyst-aided gasification process on the performance of a Direct Carbon Solid Oxide Fuel Cell. <i>Solid State Ionics</i> , 2018, 317, 268-275.	1.3	8
32	Steam electrolysis with simultaneous production of C <sub>2</sub> hydrocarbons in a solid electrolyte cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 675-683.	3.8	6
33	Iso-octane internal reforming in a solid oxide cell reactor. <i>Solid State Ionics</i> , 2016, 288, 135-139.	1.3	6
34	Iso-Octane Internal Reforming in a Solid Oxide Fuel Cell Using Co/CeO <sub>2</sub> as Anode. <i>ECS Transactions</i> , 2013, 58, 131-143.	0.3	2
35	Fabrication of Thin Electrode Films by Solution Aerosol Thermolysis (SAT). <i>ECS Transactions</i> , 2017, 78, 1839-1850.	0.3	2
36	Fabrication and Characterization of thin Ceramic Films by Spray Pyrolysis. <i>Materials Today: Proceedings</i> , 2018, 5, 27636-27644.	0.9	1

#	ARTICLE	IF	CITATIONS
37	Demonstration of hydrogen production in a hybrid lignite-assisted solid oxide electrolysis cell. International Journal of Hydrogen Energy, 2019, 44, 22770-22779.	3.8	1
38	Fabrication of Thin Functional Films by Solution Aerosol Thermolysis (SAT). ECS Journal of Solid State Science and Technology, 2018, 7, P660-P670.	0.9	0