

# Jaroslav Kita

## List of Publications by Year in descending order

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62  
papers

1,364  
citations

361413

20  
h-index

345221

36  
g-index

62  
all docs

62  
docs citations

62  
times ranked

1653  
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-Organic Frameworks for Sensing Applications in the Gas Phase. <i>Sensors</i> , 2009, 9, 1574-1589.	3.8	377
2	Planar Microstrip Ring Resonators for Microwave-Based Gas Sensing: Design Aspects and Initial Transducers for Humidity and Ammonia Sensing. <i>Sensors</i> , 2017, 17, 2422.	3.8	62
3	Characterization of nickel manganite NTC thermistor films prepared by aerosol deposition at room temperature. <i>Journal of the European Ceramic Society</i> , 2018, 38, 613-619.	5.7	56
4	Chemically synthesized one-dimensional zinc oxide nanorods for ethanol sensing. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 295-300.	7.8	52
5	Dense Y-doped ion conducting perovskite films of BaZrO <sub>3</sub> , BaSnO <sub>3</sub> , and BaCeO <sub>3</sub> for SOFC applications produced by powder aerosol deposition at room temperature. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 10000-10016.	7.1	50
6	Properties of laser cut LTCC heaters. <i>Microelectronics Reliability</i> , 2000, 40, 1005-1010.	1.7	49
7	Hot Plate Gas Sensors-Are Ceramics Better?. <i>International Journal of Applied Ceramic Technology</i> , 2005, 2, 383-389.	2.1	48
8	How to treat powders for the room temperature aerosol deposition method to avoid porous, low strength ceramic films. <i>Journal of the European Ceramic Society</i> , 2019, 39, 592-600.	5.7	47
9	Laser treatment of LTCC for 3D structures and elements fabrication. <i>Microelectronics International</i> , 2002, 19, 14-18.	0.6	38
10	Powder aerosol deposition method "novel applications in the field of sensing and energy technology. <i>Functional Materials Letters</i> , 2019, 12, 1930005.	1.2	38
11	Thick-film temperature sensors on alumina and LTCC substrates. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3443-3450.	5.7	37
12	What Happens during Thermal Post-Treatment of Powder Aerosol Deposited Functional Ceramic Films? Explanations Based on an Experimental-Enhanced Literature Survey. <i>Advanced Materials</i> , 2020, 32, e1908104.	21.0	35
13	Thick-film resistors on various substrates as sensing elements for strain-gauge applications. <i>Sensors and Actuators A: Physical</i> , 2003, 107, 261-272.	4.1	34
14	Thermoelectric hydrocarbon sensor in thick-film technology for on-board-diagnostics of a diesel oxidation catalyst. <i>Sensors and Actuators B: Chemical</i> , 2015, 214, 234-240.	7.8	27
15	CO <sub>2</sub> Selective Potentiometric Sensor in Thick-film Technology. <i>Sensors</i> , 2008, 8, 4774-4785.	3.8	25
16	Thermal Treatment of Aerosol Deposited NiMn <sub>2</sub> O <sub>4</sub> NTC Thermistors for Improved Aging Stability. <i>Sensors</i> , 2018, 18, 3982.	3.8	25
17	Self-heated HTCC-based ceramic disc for mixed potential sensors and for direct conversion sensors for automotive catalysts. <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 793-802.	7.8	23
18	High-Temperature Electrical Insulation Behavior of Alumina Films Prepared at Room Temperature by Aerosol Deposition and Influence of Annealing Process and Powder Impurities. <i>Journal of Thermal Spray Technology</i> , 2018, 27, 870-879.	3.1	23

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19	Novel tube-type LTCC transducers with buried heaters and inner interdigitated electrodes as a platform for gas sensing at various high temperatures. <i>Sensors and Actuators B: Chemical</i> , 2013, 189, 80-88.	7.8	22
20	Miniaturized ceramic differential scanning calorimeter with integrated oven and crucible in LTCC technology. <i>Sensors and Actuators A: Physical</i> , 2011, 172, 21-26.	4.1	21
21	Thick-film NTC thermistors and LTCC materials: The dependence of the electrical and microstructural characteristics on the firing temperature. <i>Journal of the European Ceramic Society</i> , 2009, 29, 3265-3271.	5.7	19
22	Effect of substrate hardness and surface roughness on the film formation of aerosol-deposited ceramic films. <i>Functional Materials Letters</i> , 2017, 10, 1750045.	1.2	14
23	Pulsed Polarization-Based NO <sub>x</sub> Sensors of YSZ Films Produced by the Aerosol Deposition Method and by Screen-Printing. <i>Sensors</i> , 2017, 17, 1715.	3.8	14
24	Powder Aerosol Deposition as a Method to Produce Garnet-Type Solid Ceramic Electrolytes: A Study on Electrochemical Film Properties and Industrial Applications. <i>Energy Technology</i> , 2021, 9, 2100211.	3.8	14
25	Conductometric Soot Sensors: Internally Caused Thermophoresis as an Important Undesired Side Effect. <i>Sensors</i> , 2018, 18, 3531.	3.8	13
26	In- and through-plane conductivity of 8YSZ films produced at room temperature by aerosol deposition. <i>Journal of Materials Science</i> , 2019, 54, 13619-13634.	3.7	13
27	Annealing of Gadolinium-Doped Ceria (GDC) Films Produced by the Aerosol Deposition Method. <i>Materials</i> , 2018, 11, 2072.	2.9	12
28	Thick-film PTC thermistors and LTCC structures: The dependence of the electrical and microstructural characteristics on the firing temperature. <i>Journal of the European Ceramic Society</i> , 2007, 27, 2237-2243.	5.7	11
29	Screen-printable Type S Thermocouple for Thick-film Technology. <i>Procedia Engineering</i> , 2015, 120, 828-831.	1.2	11
30	Novel Method for NTC Thermistor Production by Aerosol Co-Deposition and Combined Sintering. <i>Sensors</i> , 2019, 19, 1632.	3.8	11
31	Manufacturing Dense Thick Films of Lunar Regolith Simulant EAC-1 at Room Temperature. <i>Materials</i> , 2019, 12, 487.	2.9	11
32	Thick-film strain and temperature sensors on LTCC substrates. <i>Microelectronics International</i> , 2006, 23, 33-41.	0.6	10
33	Laser Annealing of Thermoelectric CuFe <sub>0.98</sub> Sn <sub>0.02</sub> O <sub>2</sub> Films Produced by Powder Aerosol Deposition Method. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001114.	3.7	10
34	Electrical and stability properties and ultrasonic microscope characterisation of low temperature co-fired ceramics resistors. <i>Microelectronics Reliability</i> , 2001, 41, 669-676.	1.7	9
35	LTCC package for MEMS device. , 2003, , .		8
36	Analysis of the characteristics of thick-film NTC thermistor devices manufactured by screen-printing and firing technique and by room temperature aerosol deposition method (ADM). <i>Functional Materials Letters</i> , 2017, 10, 1750073.	1.2	8

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37	Calorimetric sensitivity and thermal resolution of a novel miniaturized ceramic DSC chip in LTCC technology. <i>Thermochimica Acta</i> , 2012, 543, 142-149.	2.7	7
38	Influence of high temperature annealing on the dielectric properties of alumina films prepared by the aerosol deposition method. <i>Functional Materials Letters</i> , 2018, 11, 1850022.	1.2	7
39	First steps to develop a sensor for a Tianâ€™Calvet calorimeter with increased sensitivity. <i>Journal of Sensors and Sensor Systems</i> , 2016, 5, 205-212.	0.9	7
40	Investigation of the short-time high-current behavior of vias manufactured in hybrid thick-film technology. <i>Microelectronics Reliability</i> , 2011, 51, 1257-1263.	1.7	6
41	Posttreatment of powder aerosol deposited oxide ceramic films by high power LED. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 1540-1553.	2.1	6
42	Planar platform for temperature dependent four-wire impedance spectroscopyâ€™A novel tool to characterize functional materials. <i>Sensors and Actuators B: Chemical</i> , 2013, 187, 174-183.	7.8	5
43	Electrical conductivity relaxation measurements: Application of low thermal mass heater stick. <i>Solid State Ionics</i> , 2014, 262, 914-917.	2.7	5
44	Novel Tube-Type LTCC Transducers with Buried Heaters and Inner Electrodes for High-Temperatures Gas Sensors. <i>Procedia Engineering</i> , 2012, 47, 60-63.	1.2	4
45	Development and Application of a Fast Solid-state Potentiometric CO <sub>2</sub> -sensor in Thick-film Technology. <i>Procedia Engineering</i> , 2014, 87, 1031-1034.	1.2	4
46	Making powder aerosol deposition accessible for small amounts: A novel and modular approach to produce dense ceramic films. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 2178.	2.1	4
47	Evaluation of compatibility of thick-film PTC thermistors and LTCC structures. <i>Microelectronics Reliability</i> , 2005, 45, 1924-1929.	1.7	3
48	Laser processing of materials for MCM-C applications. , 2008, , .		3
49	Chosen electrical and stability properties of laser-shaped thick-film and LTCC inductors. , 2008, , .		3
50	Investigation of the <i>in situ</i> calcination of aerosol co-deposited NiO-Mn <sub>2</sub> O <sub>3</sub> films. <i>Functional Materials Letters</i> , 2019, 12, 1950039.	1.2	3
51	Novel, low-cost device to simultaneously measure the electrical conductivity and the Hall coefficient from room temperature up to 600â€™°C. <i>Journal of Sensors and Sensor Systems</i> , 2021, 10, 71-81.	0.9	3
52	Discontinuous Powder Aerosol Deposition: An Approach to Prepare Films Using Smallest Powder Quantities. <i>Coatings</i> , 2021, 11, 844.	2.6	3
53	Laser forming of LTCC Ceramics for Hot-Plate Gas Sensors. <i>Journal of Microelectronics and Electronic Packaging</i> , 2005, 2, 14-18.	0.7	3
54	Temperature-dependent dielectric anomalies in powder aerosol deposited ferroelectric ceramic films. <i>Journal of Materiomics</i> , 2022, 8, 1239-1250.	5.7	3

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55	An investigation of thick-film materials for temperature and pressure sensors on self-constrained LTCC substrates. , 2008, , .		2
56	Sensitivity Improvement of Thermoelectric Hydrocarbon Sensors: Combination of Glass-Ceramic Tapes and Alumina Substrates. Proceedings (mdpi), 2017, 1, 403.	0.2	2
57	Thermoelectric Hydrocarbon Sensor in Thick-film Technology for On-Board-Diagnostics of a Diesel Oxidation Catalyst. Procedia Engineering, 2014, 87, 616-619.	1.2	1
58	Oxygen partial pressure dependency of the electrical conductivity of aerosol deposited alumina films between 650â€°C and 900â€°C. Materials Letters, 2019, 245, 208-210.	2.6	1
59	Optimization of a sensor for a Tianâ€“Calvet calorimeter with LTCC-based sensor discs. Journal of Sensors and Sensor Systems, 2016, 5, 381-388.	0.9	1
60	Mobile sealing and repairing of damaged ceramic coatings by powder aerosol deposition at room temperature. Open Ceramics, 2022, 10, 100253.	2.0	1
61	Thick-film Temperature Sensors and LTCC Substrates - Evaluation and Characterization. , 2007, , .		0
62	Aerosol Deposition Method - A Promising Novel Method to Produce Ceramic Gas Sensor Films at Room Temperature. , 2019, , .		0