

# Yusuf Valentino Kaneti

## List of Publications by Year in descending order

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55  
papers

6,866  
citations

81743

39  
h-index

161609

54  
g-index

55  
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55  
docs citations

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times ranked

8632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoarchitected Design of Porous Materials and Nanocomposites from Metal-Organic Frameworks. <i>Advanced Materials</i> , 2017, 29, 1604898.	11.1	732
2	Nanoarchitectures for Metal-Organic Framework-Derived Nanoporous Carbons toward Supercapacitor Applications. <i>Accounts of Chemical Research</i> , 2016, 49, 2796-2806.	7.6	670
3	Metal-organic framework-derived one-dimensional porous or hollow carbon-based nanofibers for energy storage and conversion. <i>Materials Horizons</i> , 2018, 5, 394-407.	6.4	452
4	Strategies for Improving the Functionality of Zeolitic Imidazolate Frameworks: Tailoring Nanoarchitectures for Functional Applications. <i>Advanced Materials</i> , 2017, 29, 1700213.	11.1	366
5	Spontaneous Weaving of Graphitic Carbon Networks Synthesized by Pyrolysis of ZIF-67 Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8435-8440.	7.2	362
6	Fabrication of an MOF-derived heteroatom-doped Co/CoO/carbon hybrid with superior sodium storage performance for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15356-15366.	5.2	317
7	Self-assembly of block copolymers towards mesoporous materials for energy storage and conversion systems. <i>Chemical Society Reviews</i> , 2020, 49, 4681-4736.	18.7	311
8	Solar-Powered Sustainable Water Production: State-of-the-Art Technologies for Sunlight-Energy-Water Nexus. <i>ACS Nano</i> , 2021, 15, 12535-12566.	7.3	220
9	General synthesis of hierarchical sheet/plate-like M-BDC (M = Cu, Mn, Ni, and Zr) metal-organic frameworks for electrochemical non-enzymatic glucose sensing. <i>Chemical Science</i> , 2020, 11, 3644-3655.	3.7	205
10	Unprecedented capacitive deionization performance of interconnected iron-nitrogen-doped carbon tubes in oxygenated saline water. <i>Materials Horizons</i> , 2020, 7, 1404-1412.	6.4	199
11	Self-assembly of nickel phosphate-based nanotubes into two-dimensional crumpled sheet-like architectures for high-performance asymmetric supercapacitors. <i>Nano Energy</i> , 2020, 67, 104270.	8.2	187
12	Tuning the surface oxygen concentration of {111} surrounded ceria nanocrystals for enhanced photocatalytic activities. <i>Nanoscale</i> , 2016, 8, 378-387.	2.8	163
13	Self-templated fabrication of hierarchical hollow manganese-cobalt phosphide yolk-shell spheres for enhanced oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 405, 126580.	6.6	160
14	One-Step Synthetic Strategy of Hybrid Materials from Bimetallic Metal-Organic Frameworks for Supercapacitor Applications. <i>ACS Applied Energy Materials</i> , 2018, 1, 2007-2015.	2.5	159
15	Rational design and construction of nanoporous iron- and nitrogen-doped carbon electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 1380-1393.	5.2	159
16	Extraordinary capacitive deionization performance of highly-ordered mesoporous carbon nano-polyhedra for brackish water desalination. <i>Environmental Science: Nano</i> , 2019, 6, 981-989.	2.2	150
17	Fabrication of highly sensitive gas sensor based on Au functionalized WO <sub>3</sub> composite nanofibers by electrospinning. <i>Sensors and Actuators B: Chemical</i> , 2015, 220, 1112-1119.	4.0	138
18	MOF nanoleaves as new sacrificial templates for the fabrication of nanoporous Co-N <sub>x</sub> /C electrocatalysts for oxygen reduction. <i>Nanoscale Horizons</i> , 2019, 4, 1006-1013.	4.1	124

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19	Hydrothermal synthesis of ternary $\text{Fe}_2\text{O}_3\text{-ZnO-Au}$ nanocomposites with high gas-sensing performance. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 889-897.	4.0	109
20	Tailorable nanoarchitecturing of bimetallic nickel-cobalt hydrogen phosphate <i>via</i> the self-weaving of nanotubes for efficient oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3035-3047.	5.2	109
21	Borophene: Two-dimensional Boron Monolayer: Synthesis, Properties, and Potential Applications. <i>Chemical Reviews</i> , 2022, 122, 1000-1051.	23.0	106
22	Mesoporous Iron Oxide Synthesized Using Poly(styrene- <i>b</i> -acrylic acid- <i>b</i> -ethylene glycol) Block Copolymer Micelles as Templates for Colorimetric and Electrochemical Detection of Glucose. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1039-1049.	4.0	90
23	Three-Dimensional Nanoarchitecture of Carbon Nanotube-Interwoven Metal-Organic Frameworks for Capacitive Deionization of Saline Water. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 13949-13954.	3.2	88
24	Practical MOF Nanoarchitectonics: New Strategies for Enhancing the Processability of MOFs for Practical Applications. <i>Langmuir</i> , 2020, 36, 4231-4249.	1.6	86
25	General template-free strategy for fabricating mesoporous two-dimensional mixed oxide nanosheets <i>via</i> self-deconstruction/reconstruction of monodispersed metal glycerate nanospheres. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5971-5983.	5.2	81
26	Nitrogen, phosphorus co-doped eave-like hierarchical porous carbon for efficient capacitive deionization. <i>Journal of Materials Chemistry A</i> , 2021, 9, 12807-12817.	5.2	79
27	Li-ion and Na-ion transportation and storage properties in various sized $\text{TiO}_2$ spheres with hierarchical pores and high tap density. <i>Journal of Materials Chemistry A</i> , 2017, 5, 4359-4367.	5.2	78
28	A Review on Iron Oxide-Based Nanoarchitectures for Biomedical, Energy Storage, and Environmental Applications. <i>Small Methods</i> , 2019, 3, 1800512.	4.6	78
29	Nanoarchitected Porous Conducting Polymers: From Controlled Synthesis to Advanced Applications. <i>Advanced Materials</i> , 2021, 33, e2007318.	11.1	68
30	Ultrathin nanosheet-assembled nickel-based metal-organic framework microflowers for supercapacitor applications. <i>Chemical Communications</i> , 2022, 58, 1009-1012.	2.2	68
31	Self-sacrificial templated synthesis of a three-dimensional hierarchical macroporous honeycomb-like $\text{ZnO/ZnCo}_2\text{O}_4$ hybrid for carbon monoxide sensing. <i>Journal of Materials Chemistry A</i> , 2019, 7, 3415-3425.	5.2	66
32	Two-dimensional mesoporous vanadium phosphate nanosheets through liquid crystal templating method toward supercapacitor application. <i>Nano Energy</i> , 2018, 52, 336-344.	8.2	65
33	Hybrid nanoarchitecturing of hierarchical zinc oxide wool-ball-like nanostructures with multi-walled carbon nanotubes for achieving sensitive and selective detection of sulfur dioxide. <i>Sensors and Actuators B: Chemical</i> , 2018, 261, 241-251.	4.0	57
34	Experimental and theoretical studies of gold nanoparticle decorated zinc oxide nanoflakes with exposed $\{100\}$ facets for butylamine sensing. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 581-591.	4.0	52
35	Carbon-Coated Gold Nanorods: A Facile Route to Biocompatible Materials for Photothermal Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 25658-25668.	4.0	51
36	Template-Free Fabrication of Mesoporous Alumina Nanospheres Using Post-Synthesis Water-Ethanol Treatment of Monodispersed Aluminium Glycerate Nanospheres for Molybdenum Adsorption. <i>Small</i> , 2018, 14, e1800474.	5.2	50

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37	Extracellular Vesicle Nanoarchitectonics for Novel Drug Delivery Applications. <i>Small</i> , 2021, 17, e2102220.	5.2	48
38	Tailored Design of Bicontinuous Gyroid Mesoporous Carbon and Nitrogen-Doped Carbon from Poly(ethylene oxide- <i>b</i> - $\epsilon$ -caprolactone) Diblock Copolymers. <i>Chemistry - A European Journal</i> , 2017, 23, 13734-13741.	1.7	43
39	Hollow Zinc Oxide Microsphere-Multiwalled Carbon Nanotube Composites for Selective Detection of Sulfur Dioxide. <i>ACS Applied Nano Materials</i> , 2020, 3, 8982-8996.	2.4	42
40	Non-precious molybdenum nanospheres as a novel cocatalyst for full-spectrum-driven photocatalytic CO <sub>2</sub> reforming to CH <sub>4</sub> . <i>Journal of Hazardous Materials</i> , 2020, 393, 122324.	6.5	39
41	Prussian blue derived iron oxide nanoparticles wrapped in graphene oxide sheets for electrochemical supercapacitors. <i>RSC Advances</i> , 2017, 7, 33994-33999.	1.7	36
42	Mesoporous TiO <sub>2</sub> -based architectures as promising sensing materials towards next-generation biosensing applications. <i>Journal of Materials Chemistry B</i> , 2021, 9, 1189-1207.	2.9	27
43	Continuous mesoporous Pd films with tunable pore sizes through polymeric micelle-assisted assembly. <i>Nanoscale Horizons</i> , 2019, 4, 960-968.	4.1	26
44	Boosting capacitive performance of manganese oxide nanorods by decorating with three-dimensional crushed graphene. <i>Nano Convergence</i> , 2022, 9, 10.	6.3	23
45	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics toward Gradient Hybrid Monolith with Combined Structure-Function Features. <i>Matter</i> , 2020, 3, 879-891.	5.0	22
46	Template- and etching-free fabrication of two-dimensional hollow bimetallic metal-organic framework hexagonal nanoplates for ammonia sensing. <i>Chemical Engineering Journal</i> , 2022, 450, 138065.	6.6	22
47	Construction of a Unique Two-Dimensional Hierarchical Carbon Architecture for Superior Lithium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33399-33404.	4.0	21
48	Synthesis of platinum-decorated iron vanadate nanorods with excellent sensing performance toward n-butylamine. <i>Sensors and Actuators B: Chemical</i> , 2016, 236, 173-183.	4.0	16
49	Green Synthesis of Magnetite Nanostructures from Naturally Available Iron Sands via Sonochemical Method. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 311-317.	2.0	13
50	Mesoporous Alumina-Titania Composites with Enhanced Molybdenum Adsorption towards Medical Radioisotope Production. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 502-507.	2.0	10
51	Few-layer graphitic shells networked by low temperature pyrolysis of zeolitic imidazolate frameworks. <i>Materials Chemistry Frontiers</i> , 2018, 2, 520-529.	3.2	9
52	Self-Assembly of Polymeric Micelles Made of Asymmetric Polystyrene- <i>b</i> -Polyacrylic Acid- <i>b</i> -Polyethylene Oxide for the Synthesis of Mesoporous Nickel Ferrite. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 1328-1332.	1.0	8
53	Cyano-Bridged Cu-Ni Coordination Polymer Nanoflakes and Their Thermal Conversion to Mixed Cu-Ni Oxides. <i>Nanomaterials</i> , 2018, 8, 968.	1.9	4
54	Fabrication and Characterization of Prussian Blue-Derived Iron Carbide-Iron Oxide Hybrid on Reduced Graphene Oxide Nanosheets. <i>KONA Powder and Particle Journal</i> , 2021, 38, 260-268.	0.9	2

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55	Metal-Organic Powder Thermochemical Solid-Vapor Architectonics Towards Gradient Hybrid Monolith with Combined Structure-Function Features. SSRN Electronic Journal, 0, , .	0.4	0