

Keti Vezzu'

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A formalism to compare electrocatalysts for the oxygen reduction reaction by cyclic voltammetry with the thin-film rotating ring-disk electrode measurements. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100839.	2.5	11
2	Inorganic-Organic Hybrid Anion Conducting Membranes Based on Ammonium-Functionalized Polyethylene Pyrrole-Polyethylene Ketone Copolymer. <i>Macromolecular Chemistry and Physics</i> , 2022, 223, 2100409.	1.1	4
3	A general electrochemical formalism for vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2022, 408, 139937.	2.6	19
4	Interplay between coordination, dynamics, and conductivity mechanism in Mg/Al-catenated ionic liquid electrolytes. <i>Journal of Power Sources</i> , 2022, 524, 231084.	4.0	6
5	Effect of Relaxations on the Conductivity of $\text{La}_{1/2+\text{x}}\text{Li}_{1/2}\text{Ti}^{\text{x}}\text{Al}_{\text{x}}\text{O}_{3\text{x}}$ Fast Ion Conductors. <i>Chemistry of Materials</i> , 2022, 34, 5484-5499.	0.0	0
6	Hidden in plain sight: unlocking the full potential of cyclic voltammetry with the thin-film rotating (ring) disk electrode studies for the investigation of oxygen reduction reaction electrocatalysts. <i>Current Opinion in Electrochemistry</i> , 2021, 25, 100626.	2.5	10
7	Design, physico-chemical characterization and <i>in vitro</i> biological activity of organogold(<i>iii</i>) glycoconjugates. <i>Dalton Transactions</i> , 2021, 50, 8963-8979.	1.6	7
8	Hybrid twin-metal aluminum-magnesium electrolytes for rechargeable batteries. <i>Journal of Power Sources</i> , 2021, 493, 229681.	4.0	11
9	An efficient barrier toward vanadium crossover in redox flow batteries: The bilayer [Nafion/(WO ₃) _x] hybrid inorganic-organic membrane. <i>Electrochimica Acta</i> , 2021, 378, 138133.	2.6	93
10	(Invited) How to Expand the Scope of Cyclic Voltammetry with the Thin-Film Rotating (Ring) Disk Electrode to Investigate Oxygen Reduction Reaction Electrocatalysts. <i>ECS Meeting Abstracts</i> , 2021, MA2021-01, 1900-1900.	0.0	0
11	Interplay between Conductivity, Matrix Relaxations and Composition of Ca-Polyoxyethylene Polymer Electrolytes. <i>ChemElectroChem</i> , 2021, 8, 2459-2466.	1.7	5
12	Enhancement of Activity and Development of Low Pt Content Electrocatalysts for Oxygen Reduction Reaction in Acid Media. <i>Molecules</i> , 2021, 26, 5147.	1.7	11
13	Transport and Morphology of a Proton Exchange Membrane Based on a Doubly Functionalized Perfluorosulfonic Imide Side Chain Perfluorinated Polymer. <i>Chemistry of Materials</i> , 2020, 32, 38-59.	3.2	33
14	Electric Response and Conductivity Mechanism of Blended Polyvinylidene Fluoride/Nafion Electrospun Nanofibers. <i>Journal of the American Chemical Society</i> , 2020, 142, 801-814.	6.6	19
15	Correlation between Precursor Properties and Performance in the Oxygen Reduction Reaction of Pt and Co Core-shell-Carbon Nitride-Based Electrocatalysts. <i>Electrocatalysis</i> , 2020, 11, 143-159.	1.5	13
16	High valence transition metal-doped olivine cathodes for superior energy and fast cycling lithium batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25727-25738.	5.2	12
17	Heteropolytungstate-assisted fabrication and deposition of catalytic silver nanoparticles on different reduced graphene oxide supports: Electroreduction of oxygen in alkaline electrolyte. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114694.	1.9	8
18	Chrysalis-Like Graphene Oxide Decorated Vanadium-Based Nanoparticles: An Extremely High-Power Cathode for Magnesium Secondary Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 070547.	1.3	11

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19	Opening the door to liquid-free polymer electrolytes for calcium batteries. <i>Electrochimica Acta</i> , 2020, 353, 136525.	2.6	17
20	Relaxation phenomena and conductivity mechanisms in anion-exchange membranes derived from polyketone. <i>Electrochimica Acta</i> , 2019, 319, 253-263.	2.6	10
21	Elucidation of the interplay between vanadium species and charge-discharge processes in VRFBs by Raman spectroscopy. <i>Electrochimica Acta</i> , 2019, 318, 913-921.	2.6	28
22	Structural analyses of blended Nafion/PVDF electrospun nanofibers. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10357-10369.	1.3	14
23	Lithiated Nanoparticles Doped with Ionic Liquids as Quasi-Solid Electrolytes for Lithium Batteries. <i>Electrochimica Acta</i> , 2019, 307, 51-63.	2.6	13
24	Hybrid inorganic-organic proton-conducting membranes based on SPEEK doped with WO ₃ nanoparticles for application in vanadium redox flow batteries. <i>Electrochimica Acta</i> , 2019, 309, 311-325.	2.6	164
25	Enabling High Lithium Conductivity in Polymerized Ionic Liquid Block Copolymer Electrolytes. <i>Batteries and Supercaps</i> , 2019, 2, 132-138.	2.4	28
26	[Nafion/(WO ₃) _x] hybrid membranes for vanadium redox flow batteries. <i>Solid State Ionics</i> , 2018, 319, 110-116.	1.3	68
27	Interplay Between Hydroxyl Density and Relaxations in Poly(vinylbenzyltrimethylammonium)- <i>co</i> -poly(methylbutylene) Membranes for Electrochemical Applications. <i>Journal of the American Chemical Society</i> , 2018, 140, 1372-1384.	6.6	21
28	Electric response and conductivity mechanism reciprocity in H ₃ PO ₄ -doped Polybenzimidazole-4N-ZrO ₂ nanocomposite membranes. <i>Solid State Ionics</i> , 2018, 320, 172-176.	1.3	14
29	Toward Pt-Free Anion-Exchange Membrane Fuel Cells: Fe-Sn Carbon Nitride-Graphene Core-Shell Electrocatalysts for the Oxygen Reduction Reaction. <i>Chemistry of Materials</i> , 2018, 30, 2651-2659.	3.2	44
30	Correlation between Properties and Conductivity Mechanism in Poly(vinyl alcohol)-based Lithium Solid Electrolytes. <i>Solid State Ionics</i> , 2018, 320, 177-185.	1.3	40
31	A New Glass-Forming Electrolyte Based on Lithium Glycerolate. <i>Batteries</i> , 2018, 4, 41.	2.1	8
32	Opening Doors to Future Electrochemical Energy Devices: The Anion-Conducting Polyketone Polyelectrolytes. <i>Advanced Functional Materials</i> , 2018, 28, 1706522.	7.8	19
33	Hierarchical oxygen reduction reaction electrocatalysts based on FeSn _{0.5} species embedded in carbon nitride-graphene based supports. <i>Electrochimica Acta</i> , 2018, 280, 149-162.	2.6	22
34	Properties of anion exchange membrane based on polyamine: Effect of functionalized silica particles prepared by sol-gel method. <i>Solid State Ionics</i> , 2018, 322, 85-92.	1.3	21
35	Polyurethane-Based Electrostrictive Nanocomposites as High Strain-Low Frequency Mechanical Energy Harvesters. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21115-21123.	1.5	2
36	Exotic solid state ion conductor from fluorinated titanium oxide and molten metallic lithium. <i>Journal of Power Sources</i> , 2018, 400, 16-22.	4.0	11

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37	(Co, Ni)Sn _{0.5} Nanoparticles Supported on Hierarchical Carbon Nitride-Graphene-Based Electrocatalysts for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 2029-2040.	1.7	6
38	Reorientational Relaxation and Hydrogen Bonding in Mixtures of Water and Methanol. Journal of the Electrochemical Society, 2018, 165, H549-H560.	1.3	2
39	A Polyketone-based Anion Exchange Membrane for Electrochemical Applications: Synthesis and Characterization. Electrochimica Acta, 2017, 226, 148-157.	2.6	38
40	Electric Response and Conductivity Mechanism in H ₃ PO ₄ -Doped Polybenzimidazole-4NHfO ₂ Nanocomposite Membranes for High Temperature Fuel Cells. Electrochimica Acta, 2017, 228, 562-574.	2.6	20
41	Three-dimensional Catenated 1-ethyl-3-methylimidazolium Halotitanate Ionic Liquid Electrolytes for Electrochemical Applications. Electrochimica Acta, 2017, 246, 914-923.	2.6	13
42	Effect of Graphite and Copper Oxide on the Performance of High Potential Li[Fe 1/3 Ni 1/3 Co 1/3]PO ₄ Olivine Cathodes for Lithium Batteries. Electrochimica Acta, 2017, 225, 533-542.	2.6	17
43	A lipophilic ionic liquid based on formamidinium cations and TFSI: the electric response and the effect of CO ₂ on the conductivity mechanism. Physical Chemistry Chemical Physics, 2017, 19, 26230-26239.	1.3	2
44	Chemical modification and structural rearrangements of polyketone-based polymer membrane. Journal of Applied Polymer Science, 2017, 134, 45485.	1.3	17
45	Fe-carbon nitride Core-shell-electrocatalysts for the oxygen reduction reaction. Electrochimica Acta, 2016, 222, 1778-1791.	2.6	60
46	Property-Relaxation Correlations in 3D-Siloxane/Polyether Hybrid Polymer Electrolytes. Journal of Physical Chemistry C, 2016, 120, 10770-10780.	1.5	6
47	(Invited) The Implications of Cation Clustering in Anion Exchange Membranes on Conductivity and Mechanical Properties. ECS Transactions, 2016, 75, 945-948.	0.3	2
48	Interplay Between Structure and Conductivity in 1-Ethyl-3-methylimidazolium tetrafluoroborate/(f-MgCl ₂) Electrolytes for Magnesium Batteries. Electrochimica Acta, 2016, 219, 152-162.	2.6	18
49	Oxygen reduction reaction and X-ray photoelectron spectroscopy characterisation of carbon nitride-supported bimetallic electrocatalysts. Electrochimica Acta, 2016, 215, 398-409.	2.6	35
50	A Highly Hydroxide Conductive, Chemically Stable Anion Exchange Membrane, Poly(2,6 dimethyl 1,4) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Journal of the Electrochemical Society, 2016, 163, H513-H520.	1.3	55
51	Dielectric relaxations of polyether-based polyurethanes containing ionic liquids as antistatic agents. Physical Chemistry Chemical Physics, 2016, 18, 2369-2378.	1.3	5
52	Origins, Developments, and Perspectives of Carbon Nitride-Based Electrocatalysts for Application in Low-Temperature FCs. Electrochemical Society Interface, 2015, 24, 59-64.	0.3	55
53	A Key concept in Magnesium Secondary Battery Electrolytes. ChemSusChem, 2015, 8, 3069-3076.	3.6	54
54	Interplay between Composition, Structure, and Properties of New H ₃ PO ₄ -Doped PBI ₄ -HfO ₂ Nanocomposite Membranes for High-Temperature Proton Exchange Membrane Fuel Cells. Macromolecules, 2015, 48, 15-27.	2.2	56

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55	Nanocomposite Membranes based on Polybenzimidazole and ZrO ₂ for High-Temperature Proton Exchange Membrane Fuel Cells. <i>ChemSusChem</i> , 2015, 8, 1381-1393.	3.6	64
56	Single-Ion-Conducting Nanocomposite Polymer Electrolytes for Lithium Batteries Based on Lithiated-Fluorinated-Iron Oxide and Poly(ethylene glycol) 400. <i>Electrochimica Acta</i> , 2015, 175, 113-123.	2.6	47
57	Interplay between solid state transitions, conductivity mechanisms, and electrical relaxations in a [PVBtMA]-b-PMB diblock copolymer membrane for electrochemical applications. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31125-31139.	1.3	29
58	Interplay between water uptake, ion interactions, and conductivity in an e-beam grafted poly(ethylene-co-tetrafluoroethylene) anion exchange membrane. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 4367-4378.	1.3	83
59	Interplay between Nitrogen Concentration, Structure, Morphology, and Electrochemical Performance of PdCoNi @Core@Shell@Carbon Nitride Electrocatalysts for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2014, 1, 1359-1369.	1.7	86
60	Interplay between morphology and electrochemical performance of @core@shell@electrocatalysts for oxygen reduction reaction based on a PtNix carbon nitride @shell@ and a pyrolyzed polyketone nanoball @core@. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2828-2841.	3.8	56
61	Synthesis, studies and fuel cell performance of @core@shell@electrocatalysts for oxygen reduction reaction based on a PtNix carbon nitride @shell@ and a pyrolyzed polyketone nanoball @core@. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2812-2827.	3.8	71
62	Highly Conducting 3D-Hybrid Polymer Electrolytes for Lithium Batteries Based on Siloxane Networks and Cross-Linked Organic Polar Interphases. <i>Chemistry of Materials</i> , 2014, 26, 6339-6350.	3.2	33
63	Single-ion-conducting nanocomposite polymer electrolytes based on PEG400 and anionic nanoparticles: Part 2. Electrical characterization. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2884-2895.	3.8	38
64	Iodide-conducting plastic crystals based on N,N-dimethyl-2-(methylsilyloxy) ethanaminium cations (MESEAn+) for application in dye-sensitized solar cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2896-2903.	3.8	6
65	Single-ion-conducting nanocomposite polymer electrolytes based on PEG400 and anionic nanoparticles: Part 1. Synthesis, structure and properties. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 2872-2883.	3.8	30
66	Dielectric relaxations and conduction mechanisms in polyether@clay composite polymer electrolytes under high carbon dioxide pressure. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16626.	1.3	24
67	The influence of the cationic form and degree of hydration on the structure of Nafion@. <i>Solid State Ionics</i> , 2013, 252, 84-92.	1.3	39
68	Molecular Relaxations in Magnesium Polymer Electrolytes via GHz Broadband Electrical Spectroscopy. <i>ChemSusChem</i> , 2013, 6, 2157-2160.	3.6	25
69	Pressure, Temperature, and Dew Point Broadband Electrical Spectroscopy (PTD-BES) for the Investigation of Membranes for PEMFCs. <i>Fuel Cells</i> , 2013, 13, 48-57.	1.5	4
70	Interplay between Mechanical, Electrical, and Thermal Relaxations in Nanocomposite Proton Conducting Membranes Based on Nafion and a [(ZrO ₂) ₂ ·(TaO ₅) _{0.119}] Core@Shell Nanofiller. <i>Journal of the American Chemical Society</i> , 2012, 134, 19099-19107.	6.6	79
71	New Nanocomposite Hybrid Inorganic@Organic Proton@Conducting Membranes Based on Functionalized Silica and PTFE. <i>ChemSusChem</i> , 2012, 5, 1758-1766.	3.6	24
72	Broadband Electric Spectroscopy at High CO ₂ Pressure: Dipole Moment of CO ₂ and Relaxation Phenomena of the CO ₂ @Poly(vinyl chloride) System. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9014-9021.	1.2	10

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73	Effect of High Pressure CO ₂ on the Structure of PMMA: A FT-IR Study. Journal of Physical Chemistry B, 2011, 115, 13519-13525.	1.2	23
74	Medical device disinfection by dense carbon dioxide. Journal of Hospital Infection, 2011, 77, 42-46.	1.4	3
75	Interplay between structural and electrochemical properties of Pt-Rh carbon nitride electrocatalysts for the oxygen reduction reaction. Electrochimica Acta, 2011, 57, 257-269.	2.6	43
76	Iodide-conducting polymer electrolytes based on poly-ethylene glycol and MgI ₂ : Synthesis and structural characterization. Electrochimica Acta, 2011, 57, 112-122.	2.6	37
77	Production of lipid microparticles containing bioactive molecules functionalized with PEG. Journal of Supercritical Fluids, 2010, 54, 328-334.	1.6	25
78	Production of Lipid Microparticles Magnetically Active by a Supercritical Fluid-Based Process. International Journal of Chemical Engineering, 2009, 2009, 1-9.	1.4	5
79	Hyaluronan based porous nano-particles enriched with growth factors for the treatment of ulcers: a placebo-controlled study. Journal of Materials Science: Materials in Medicine, 2009, 20, 235-247.	1.7	154
80	Production of bioethanol under high pressure of CO ₂ : The effect of process conditions. Journal of Supercritical Fluids, 2009, 51, 67-73.	1.6	3
81	Solid-liquid equilibria of multicomponent lipid mixtures under CO ₂ pressure: Measurement and thermodynamic modeling. AIChE Journal, 2008, 54, 2487-2494.	1.8	13
82	High-pressure gas-assisted absorption of protein within biopolymeric micro-patterned membrane. Biochemical Engineering Journal, 2008, 40, 241-248.	1.8	9
83	Effect of subcritical CO ₂ on ionic conductivity of {Al[O(CH ₂ CH ₂ O) _{8.7}]} _n (LiClO ₄) _z hybrid inorganic-organic networks. Electrochimica Acta, 2006, 51, 1592-1601.	2.6	8
84	Effect of subcritical CO ₂ on the structural and electrical properties of ORMOCERS-APE systems based on Zr and Al. Electrochimica Acta, 2005, 50, 3904-3916.	2.6	9
85	Measurement and modeling of CO ₂ absorption in poly(lactic-co-glycolic acid). Journal of Supercritical Fluids, 2005, 33, 1-5.	1.6	25