Alberto Vertova

List of Publications by Year
in descending order

79 papers	2,054 citations	257450 24 h-index	265206 42 g-index
79 all docs	79 docs citations	79 times ranked	2847 citing authors

#	Article	IF	Citations
1	Smart interfaces in Li-ion batteries: Near-future key challenges. Electrochimica Acta, 2022, 415, 140258.	5.2	8
2	Hydrodehalogenation of Polychloromethanes on Silverâ€Based Gas Diffusion Electrodes. ChemElectroChem, 2021, 8, 1892-1898.	3.4	8
3	AEMFC Exploiting a Pd/CeO2-Based Anode Compared to Classic PEMFC via LCA Analysis. Hydrogen, 2021, 2, 246-261.	3.4	4
4	Molecular cluster route for the facile synthesis of a stable and active Pt nanoparticle catalyst. New Journal of Chemistry, 2021, 45, 11292-11303.	2.8	4
5	Copper Oxide-Based Photocatalysts and Photocathodes: Fundamentals and Recent Advances. Molecules, 2021, 26, 7271.	3.8	19
6	Electrodeposited Cu thin layers as low cost and effective underlayers for Cu2O photocathodes in photoelectrochemical water electrolysis. Journal of Solid State Electrochemistry, 2020, 24, 339-355.	2.5	5
7	ORR in Non-Aqueous Solvent for Li-Air Batteries: The Influence of Doped MnO2-Nanoelectrocatalyst. Nanomaterials, 2020, 10, 1735.	4.1	6
8	Strain or Electronic Effects? â€“ The influence of alkali metals on the bandgap of Cu2O. Chemical Physics Letters, 2020, 755, 137799.	2.6	1
9	Direct Observation of Photoinduced Higher Oxidation States at a Semiconductor/Electrocatalyst Junction. ACS Catalysis, 2020, 10, 10476-10487.	11.2	10
10	Determining the Efficiency of Photoelectrode Materials by Coupling Cavityâ€Microelectrode Tips and Scanning Electrochemical Microscopy. ChemElectroChem, 2020, 7, 2440-2447.	3.4	2
11	Role of Synthetic Parameters on the Structural and Optical Properties of N,Sn-Copromoted Nanostructured TiO2: A Combined Ti K-Edge and Sn L2,3-Edges X-ray Absorption Investigation. Nanomaterials, 2020, 10, 1224.	4.1	4
12	Operando X-ray absorption spectroscopy of WO3 photoanodes. Electrochimica Acta, 2019, 320, 134561.	5.2	14
13	Influence of Strain on the Band Gap of Cu₂O. Chemistry of Materials, 2019, 31, 4787-4792.	6.7	24
14	Chlorine Dioxide Degradation Issues on Metal and Plastic Water Pipes Tested in Parallel in a Semi-Closed System. International Journal of Environmental Research and Public Health, 2019, 16, 4582.	2.6	24
15	Achieving efficient H2O2 production by a visible-light absorbing, highly stable photosensitized TiO2. Applied Catalysis B: Environmental, 2019, 244, 303-312.	20.2	85
16	Reverse type I core - CuI /shell - CuO: A versatile heterostructure for photoelectrochemical applications. Electrochimica Acta, 2018, 266, 441-451.	5.2	15
17	Dynamics of oxide growth on Pt nanoparticles electrodes in the presence of competing halides by operando energy dispersive X-Ray absorption spectroscopy. Electrochimica Acta, 2018, 270, 378-386.	5.2	8
18	Î±- and Î³-FeOOH: Stability, Reversibility, and Nature of the Active Phase under Hydrogen Evolution. ACS Applied Energy Materials, 2018, 1, 1716-1725.	5.1	26

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19	Photoelectrochemical and photocatalytic systems based on titanates for hydrogen peroxide formation. Journal of Electroanalytical Chemistry, 2018, 808, 395-402.	3.8	28
20	Ad hoc tailored electrocatalytic MnO2 nanorods for the oxygen reduction in aqueous and organic media. Journal of Electroanalytical Chemistry, 2018, 808, 439-445.	3.8	8
21	Time-Resolved X-ray Absorption Spectroscopy in (Photo)Electrochemistry. Surfaces, 2018, 1, 138-150.	2.3	17
22	Electroreduction. , 2018, , 3-28.		7
23	Observation of charge transfer cascades in Î±-Fe₂O₃/IrO_xphotoanodes by operando X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 5715-5720.	2.8	16
24	Structure and Stability of a Copper(II) Lactate Complex in Alkaline Solution: a Case Study by Energy-Dispersive X-ray Absorption Spectroscopy. Inorganic Chemistry, 2017, 56, 6982-6989.	4.0	19
25	The Influence of Carbonaceous Matrices and Electrocatalytic MnO2 Nanopowders on Lithium-Air Battery Performances. Nanomaterials, 2016, 6, 10.	4.1	18
26	The dynamics of pseudocapacitive phenomena studied by Energy Dispersive X-Ray Absorption Spectroscopy on hydrous iridium oxide electrodes in alkaline media. Electrochimica Acta, 2016, 212, 247-253.	5.2	8
27	Operando and Time-Resolved X-Ray Absorption Spectroscopy for the Study of Photoelectrode Architectures. Electrochimica Acta, 2016, 207, 16-21.	5.2	17
28	An Efficient Cu_xO Photocathode for Hydrogen Production at Neutral pH: New Insights from Combined Spectroscopy and Electrochemistry. ACS Applied Materials & Interfaces, 2016, 8, 21250-21260.	8.0	39
29	High-performance of bare and Ti-doped Î±-MnO2 nanoparticles in catalyzing the Oxygen Reduction Reaction. Journal of Power Sources, 2016, 325, 116-128.	7.8	40
30	3D-printed photo-spectroelectrochemical devices forin situandin operandoX-ray absorption spectroscopy investigation. Journal of Synchrotron Radiation, 2016, 23, 622-628.	2.4	37
31	Fixed Energy X-ray Absorption Voltammetry and Extended X-ray Absorption fine Structure of Ag nanoparticle electrodes. Journal of Electroanalytical Chemistry, 2016, 766, 71-77.	3.8	11
32	Rapid Characterization of Oxygen-Evolving Electrocatalyst Spot Arrays by the Substrate Generation/Tip Collection Mode of Scanning Electrochemical Microscopy with Decreased O₂ Diffusion Layer Overlap. Journal of Physical Chemistry C, 2015, 119, 2941-2947.	3.1	16
33	Easy Accommodation of Different Oxidation States in Iridium Oxide Nanoparticles with Different Hydration Degree as Water Oxidation Electrocatalysts. ACS Catalysis, 2015, 5, 5104-5115.	11.2	105
34	Organic Pollutants for Wastewater Treatment, Reductive Dechlorination. , 2014, , 1398-1402.		0
35	Observing the oxidation state turnover in heterogeneous iridium-based water oxidation catalysts. Chemical Science, 2014, 5, 3591.	7.4	190
36	Gas-phase volatile organic chloride electroreduction: A versatile experimental setup for electrolytic dechlorination and voltammetric analysis. Electrochemistry Communications, 2014, 44, 63-65.	4.7	18

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37	IrO2â€“SnO2 mixtures as electrocatalysts for the oxygen reduction reaction in alkaline media. Journal of Applied Electrochemistry, 2013, 43, 171-179.	2.9	12
38	Au-based/electrochemically etched cavity-microelectrodes as optimal tool for quantitative analyses on finely dispersed electrode materials: Pt/C, IrO2-SnO2 and Ag catalysts. Electrochimica Acta, 2013, 114, 637-642.	5.2	9
39	Studying electron transfer reaction at the Au/n-decanethiol/aqueous solution of NaNO3 interface by electrochemical impedance spectroscopy. Russian Journal of Electrochemistry, 2013, 49, 26-37.	0.9	1
40	Benzyl Chloride Electroreduction on Ag Cathodes in CH3CN in the Presence of Small Amounts of Water: Evidences of Quantitative Effects on Reaction Rates and Mechanism. Electrocatalysis, 2013, 4, 353-357.	3.0	11
41	IrO₂-Based Disperse-Phase Electrocatalysts: A Complementary Study by Means of the Cavity-Microelectrode and Ex-Situ X-ray Absorption Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 6497-6504.	2.5	29
42	Probing the Electron Transfer Process of Cytochrome C Embedded in Mixed Thiol SAM on Electrodeposited Gold. Journal of the Electrochemical Society, 2012, 159, F81-F86.	2.9	3
43	Designing materials by means of the cavity-microelectrode: the introduction of the quantitative rapid screening toward a highly efficient catalyst for water oxidation. Journal of Materials Chemistry, 2012, 22, 8896.	6.7	18
44	Dynamic potentialâ€“pH diagrams application to electrocatalysts for wateroxidation. Chemical Science, 2012, 3, 217-229.	7.4	193
45	Silver nanoparticles for hydrodehalogenation reduction: Evidence of a synergistic effect between catalyst and support. Electrochemistry Communications, 2012, 22, 25-28.	4.7	25
46	Electron transfer across the interface gold/self-assembled organic monolayer. Comparison of single- and two-component systems. Russian Journal of Electrochemistry, 2012, 48, 351-363.	0.9	5
47	Electrochemically assisted deposition on TiO2scaffold for Tissue Engineering: an apatite bio-inspired crystallization pathway. Journal of Materials Chemistry, 2011, 21, 400-407.	6.7	13
48	Quantitative Studies on Electrode Material Properties by Means of the Cavity Microelectrode. Analytical Chemistry, 2011, 83, 2819-2823.	6.5	29
49	Electroreduction of Halogenated Organic Compounds. , 2010, , 279-306.		9
50	Electroreductions on Silverâ€Based Electrocatalysts: The Use of Ag Nanoparticles for CHCl₃ to CH₄ Conversion. Fuel Cells, 2009, 9, 253-263.	2.4	43
51	Silver electrodeposition from waterâ€“acetonitrile mixed solvents and mixed electrolytes in the presence of tetrabutylammonium perchlorate. Part Iâ€”electrochemical nucleation on glassy carbon electrode. Journal of Solid State Electrochemistry, 2009, 13, 1577-1584.	2.5	15
52	Electrodialytic recovery of light carboxylic acids from industrial aqueous wastes. Journal of Applied Electrochemistry, 2009, 39, 2051-2059.	2.9	38
53	Physico-chemical characterization of IrO2â€“SnO2 sol-gel nanopowders for electrochemical applications. Journal of Applied Electrochemistry, 2009, 39, 2093-2105.	2.9	27
54	Cavity microelectrodes for the voltammetric investigation of electrocatalysts: the electroreduction of volatile organic halides on micro-sized silver powders. Journal of Applied Electrochemistry, 2008, 38, 965-971.	2.9	21

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55	New electrocatalytic materials based on mixed metal oxides: electrochemical quartz crystal microbalance characterization. Journal of Applied Electrochemistry, 2008, 38, 973-978.	2.9	10
56	TiO2 nanocrystal particles and electrodes. The combined role of pH and metal substrate. Journal of Electroanalytical Chemistry, 2008, 621, 185-197.	3.8	9
57	Charge-Transfer Patterns for [Ru(NH3)6]3+/2+ at SAM Modified Gold Electrodes: Impact of the Permeability of a Redox Probe. The Open Physical Chemistry Journal, 2008, 2, 17-21.	0.4	7
58	Impact of self-assembly composition on the alternate interfacial electron transfer for electrostatically immobilized cytochromec. Biopolymers, 2007, 87, 68-73.	2.4	30
59	Preparation and electrochemical behaviour of {[Ru(bipy)4Cl2Ag]NO3(CHCl3)Â·6H2O}n obtained from the self-assembly of trans-Ru(bipy)4Cl2 and AgNO3. Electrochimica Acta, 2007, 52, 2603-2611.	5.2	18
60	Ion-channel Sensors Based on ETH 1001 Ionophore Embedded in Charged-alkanethiol Self-assembled Monolayers on Gold Electrode Surfaces. Analytical Sciences, 2006, 22, 1581-1584.	1.6	9
61	Composite ternary SnO2â€“IrO2â€“Ta2O5 oxide electrocatalysts. Journal of Electroanalytical Chemistry, 2006, 589, 160-166.	3.8	93
62	Bulk, Surface and Morphological Features of Nanostructured Tin Oxide by a Controlled Alkoxide-Gel Path. Journal of Nanoparticle Research, 2006, 8, 653-660.	1.9	13
63	Low-temperature solâ€“gel nanocrystalline tin oxide. Electrochimica Acta, 2005, 50, 4419-4425.	5.2	11
64	Electroreduction of volatile organic halides on activated silver cathodes. Journal of Applied Electrochemistry, 2005, 35, 363-368.	2.9	50
65	Electrocatalysis on silver and silver alloys for dichloromethane and trichloromethane dehalogenation. Electrochimica Acta, 2004, 49, 4035-4046.	5.2	92
66	The role of surface electrification on the growth and structural features of titania nanoparticles. Physical Chemistry Chemical Physics, 2004, 6, 3535.	2.8	24
67	The Use of Hexaaminеruthenium(III) Redox Marker for the Characterization of SAM-Au Amperometric Sensors. Electroanalysis, 2003, 15, 1297-1301.	2.9	10
68	The solvent friction mechanism for outer-sphere electron exchange at bare metal electrodes. The case of Au/Ru(NH3)63+/2+ redox system. Electrochemistry Communications, 2003, 5, 241-245.	4.7	17
69	Nanocrystalline titanium oxide by solâ€“gel method. The role of the solvent removal step. Physical Chemistry Chemical Physics, 2003, 5, 1689-1694.	2.8	32
70	Monitoring hydrogen absorption in Pd electrodes by means of electric and electrochemical signals. Journal of Applied Electrochemistry, 2002, 32, 661-670.	2.9	5
71	The Electrocatalytic Performance of Silver in the Reductive Dehalogenation of Bromophenols. Journal of the Electrochemical Society, 2001, 148, D102.	2.9	53
72	Lifetime of Ion-Selective Electrodes Based on Charged Ionophores. Analytical Chemistry, 2000, 72, 1843-1852.	6.5	35

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73	Microcrystalline cellulose powders: structure, surface features and water sorption capability. Cellulose, 1999, 6, 57-69.	4.9	90
74	Batch effects, water content and aqueous/organic solvent reactivity of microcrystalline cellulose samples. International Journal of Biological Macromolecules, 1999, 26, 269-277.	7.5	9
75	Transference Numbers of Alkali Chlorides and Characterization of Salt Bridges for Use in Methanol + Water Mixed Solvents. Journal of Chemical & Engineering Data, 1999, 44, 1002-1008.	1.9	15
76	pH measurements in non-aqueous and mixed solvents: Predicting pH(PS) of potassium hydrogen phthalate for alcoholwater mixtures (Technical Report). Pure and Applied Chemistry, 1998, 70, 1419-1422.	1.9	27
77	Thermodynamics of the amalgam cell: {Me_xHg_{1â€x}|MeCl(m)| AgCl| Ag} (with Me = K, Rb) in (methanol+water) solvent mixtures. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 842-846.	0.9	4
78	Thermodynamics of the cell: {MexHg1â^'x|MeCl(m)|AgCl|Ag} (Me = Na,K,Cs) in (ethanol + water) solvent mixtures. Journal of Chemical Thermodynamics, 1995, 27, 245-251.	2.0	18
79	A new, long-lived Ca-selective electrode. Sensors and Actuators B: Chemical, 1995, 23, 27-33.	7.8	11