

Valerio Beni

List of Publications by Year in descending order

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68
papers

2,844
citations

185998

28
h-index

174990

52
g-index

70
all docs

70
docs citations

70
times ranked

4288
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc Oxide Nanostructure-Modified Textile and Its Application to Biosensing, Photocatalysis, and as Antibacterial Material. <i>Langmuir</i> , 2015, 31, 10913-10921.	1.6	229
2	Lateral-flow technology: From visual to instrumental. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 79, 297-305.	5.8	202
3	Label-free impedimetric biosensor for Salmonella Typhimurium detection based on poly [pyrrole-co-3-carboxyl-pyrrole] copolymer supported aptamer. <i>Biosensors and Bioelectronics</i> , 2016, 80, 194-200.	5.3	195
4	Cholesterol Self-Powered Biosensor. <i>Analytical Chemistry</i> , 2014, 86, 9540-9547.	3.2	149
5	Diazonium-based impedimetric aptasensor for the rapid label-free detection of Salmonella typhimurium in food sample. <i>Biosensors and Bioelectronics</i> , 2016, 80, 566-573.	5.3	129
6	Application of 2D Non-Graphene Materials and 2D Oxide Nanostructures for Biosensing Technology. <i>Sensors</i> , 2016, 16, 223.	2.1	128
7	Electrochemical bacterial detection using poly(3-aminophenylboronic acid)-based imprinted polymer. <i>Biosensors and Bioelectronics</i> , 2017, 93, 87-93.	5.3	117
8	Synthesis of Novel CuO Nanosheets and Their Non-Enzymatic Glucose Sensing Applications. <i>Sensors</i> , 2013, 13, 7926-7938.	2.1	104
9	Creatinine and urea biosensors based on a novel ammonium ion-selective copper-polyaniline nano-composite. <i>Biosensors and Bioelectronics</i> , 2016, 77, 505-511.	5.3	94
10	Voltammetric characterisation of silicon-based microelectrode arrays and their application to mercury-free stripping voltammetry of copper ions. <i>Talanta</i> , 2007, 71, 1022-1030.	2.9	90
11	Continuous sensing of hydrogen peroxide and glucose via quenching of the UV and visible luminescence of ZnO nanoparticles. <i>Mikrochimica Acta</i> , 2015, 182, 1819-1826.	2.5	82
12	Stripping voltammetry at micro-interface arrays: A review. <i>Analytica Chimica Acta</i> , 2013, 769, 10-21.	2.6	73
13	Selective voltammetric detection of dopamine in the presence of ascorbate Electronic supplementary information (ESI) available: experimental details, cell compositions, methodology. See http://www.rsc.org/suppdata/cc/b3/b316493d/ . <i>Chemical Communications</i> , 2004, , 732.	2.2	69
14	Cyclic and pulse voltammetric study of dopamine at the interface between two immiscible electrolyte solutions. <i>Biosensors and Bioelectronics</i> , 2005, 20, 2097-2103.	5.3	63
15	Development of a portable electroanalytical system for the stripping voltammetry of metals: Determination of copper in acetic acid soil extracts. <i>Analytica Chimica Acta</i> , 2005, 552, 190-200.	2.6	59
16	The ethylene glycol template assisted hydrothermal synthesis of Co ₃ O ₄ nanowires; structural characterization and their application as glucose non-enzymatic sensor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 194, 94-100.	1.7	57
17	An integrated dual functional recognition/amplification bio-label for the one-step impedimetric detection of Micro-RNA-21. <i>Biosensors and Bioelectronics</i> , 2017, 92, 154-161.	5.3	52
18	A practical non-enzymatic urea sensor based on NiCo ₂ O ₄ nanoneedles. <i>RSC Advances</i> , 2019, 9, 14443-14451.	1.7	50

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19	Flexible Printed Organic Electrochemical Transistors for the Detection of Uric Acid in Artificial Wound Exudate. <i>Advanced Materials Interfaces</i> , 2020, 7, 2001218.	1.9	50
20	Printed Electrochemical Instruments for Biosensors. <i>ECS Journal of Solid State Science and Technology</i> , 2015, 4, S3001-S3005.	0.9	46
21	Design and testing of a packaged microfluidic cell for the multiplexed electrochemical detection of cancer markers. <i>Electrophoresis</i> , 2009, 30, 3398-3405.	1.3	45
22	Label free urea biosensor based on organic electrochemical transistors. <i>Flexible and Printed Electronics</i> , 2018, 3, 024001.	1.5	43
23	Nanomaterial application in bio/sensors for the detection of infectious diseases. <i>Talanta</i> , 2021, 230, 122026.	2.9	43
24	Investigation into the voltammetric behaviour and detection of selenium(IV) at metal electrodes in diverse electrolyte media. <i>Analytica Chimica Acta</i> , 2011, 699, 127-133.	2.6	36
25	Detection of Breast Cancer 1 (BRCA1) Gene Using an Electrochemical DNA Biosensor Based on Immobilized ZnO Nanowires. <i>Open Journal of Applied Biosensor</i> , 2014, 03, 9-17.	1.6	34
26	Microelectrode Arrays and Microfabricated Devices in Electrochemical Stripping Analysis. <i>Current Analytical Chemistry</i> , 2008, 4, 229-241.	0.6	33
27	Development of a gold nano-particle-based fluorescent molecular beacon for detection of cystic fibrosis associated mutation. <i>Biosensors and Bioelectronics</i> , 2010, 26, 307-313.	5.3	32
28	Voltammetry of chromium(VI) at the liquid liquid interface. <i>Electrochemistry Communications</i> , 2005, 7, 976-982.	2.3	29
29	Voltammetric behaviour at gold electrodes immersed in the BCR sequential extraction scheme media. <i>Analytica Chimica Acta</i> , 2004, 502, 195-206.	2.6	28
30	Structurally responsive oligonucleotide-based single-probe lateral-flow test for detection of miRNA-21 mimics. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 1475-1485.	1.9	25
31	Melting temperature of surface-tethered DNA. <i>Analytical Biochemistry</i> , 2010, 406, 34-40.	1.1	21
32	Direct detection of ammonium ion by means of oxygen electrocatalysis at a copper-polyaniline composite on a screen-printed electrode. <i>Mikrochimica Acta</i> , 2016, 183, 1981-1987.	2.5	20
33	An Electrochemical Dopamine Sensor Based on the ZnO/CuO Nanohybrid Structures. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6646-6652.	0.9	19
34	Modulating the Faradic Operation of All-Printed Organic Electrochemical Transistors by Facile in Situ Modification of the Gate Electrode. <i>ACS Omega</i> , 2019, 4, 5374-5381.	1.6	19
35	A Bacterial Photosynthetic Enzymatic Unit Modulating Organic Transistors with Light. <i>Advanced Electronic Materials</i> , 2020, 6, 1900888.	2.6	19
36	Fully screen printed stretchable electrochromic displays. <i>Flexible and Printed Electronics</i> , 2021, 6, 045014.	1.5	19

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37	Methylene blue as an electrochemical indicator for DF508 cystic fibrosis mutation detection. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 1423-1432.	1.9	18
38	Biofunctionalization of Polyoxometalates with DNA Primers, Their Use in the Polymerase Chain Reaction (PCR) and Electrochemical Detection of PCR Products. <i>Chemistry - A European Journal</i> , 2015, 21, 17721-17727.	1.7	18
39	Large-area printed organic electronic ion pumps. <i>Flexible and Printed Electronics</i> , 2019, 4, 022001.	1.5	17
40	Low temperature chemical sintering of inkjet-printed Zn nanoparticles for highly conductive flexible electronic components. <i>Npj Flexible Electronics</i> , 2021, 5, .	5.1	17
41	Unsubstituted phenothiazine as a superior water-insoluble mediator for oxidases. <i>Biosensors and Bioelectronics</i> , 2014, 53, 275-282.	5.3	16
42	Labelless electrochemical melting curve analysis for rapid mutation detection. <i>Analytical Methods</i> , 2010, 2, 1461.	1.3	15
43	High Performance Organic Electrochemical Transistors and Logic Circuits Manufactured via a Combination of Screen and Aerosol Jet Printing Techniques. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	15
44	Effect of humic acid on the underpotential deposition-stripping voltammetry of copper in acetic acid soil extract solutions at mercaptoacetic acid-modified gold electrodes. <i>Analytica Chimica Acta</i> , 2004, 511, 137-143.	2.6	14
45	Electrochemical melting-curve analysis. <i>Electrochemistry Communications</i> , 2010, 12, 1030-1033.	2.3	14
46	Modified primers for rapid and direct electrochemical analysis of coeliac disease associated HLA alleles. <i>Biosensors and Bioelectronics</i> , 2015, 73, 64-70.	5.3	14
47	Gold nanoparticle fluorescent molecular beacon for low-resolution DQ2 gene HLA typing. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1001-1009.	1.9	13
48	Controlled Zn ²⁺ -Mediated Grafting of Thin Layers of Bipodal Diazonium Salt on Gold and Carbon Substrates. <i>Chemistry - A European Journal</i> , 2015, 21, 671-681.	1.7	13
49	Bioinspired design of a polymer-based biohybrid sensor interface. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 674-682.	4.0	13
50	Cystic fibrosis: a label-free detection approach based on thermally modulated electrochemical impedance spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 396, 2565-2574.	1.9	12
51	Monitoring DNA Hybridization with Organic Electrochemical Transistors Functionalized with Polydopamine. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	12
52	Facile Electrochemical Hydrogenation and Chlorination of Glassy Carbon to Produce Highly Reactive and Uniform Surfaces for Stable Anchoring of Thiolated Molecules. <i>Chemistry - A European Journal</i> , 2014, 20, 7646-7654.	1.7	11
53	Doping Polypyrrole Films with 4-N-Pentylphenylboronic Acid to Enhance Affinity towards Bacteria and Dopamine. <i>PLoS ONE</i> , 2016, 11, e0166548.	1.1	11
54	Solar Heat-Enhanced Energy Conversion in Devices Based on Photosynthetic Membranes and PEDOT:PSS/NC Nanocellulose Electrodes. <i>Advanced Sustainable Systems</i> , 2020, 4, 1900100.	2.7	11

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55	Electrochemical properties of polymeric nanopatterned electrodes. <i>Electrochemistry Communications</i> , 2007, 9, 1833-1839.	2.3	10
56	Low-resolution medium resolution HLA-DQ2/DQ8 typing for coeliac disease predisposition analysis by colorimetric assay. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 807-819.	1.9	10
57	Medium-high resolution electrochemical genotyping of HLA-DQ2/DQ8 for detection of predisposition to coeliac disease. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2757-2769.	1.9	10
58	Electrochemical molecular beacon DNA biosensor for the detection and discrimination of the DF508 cystic fibrosis mutation. <i>Journal of Electroanalytical Chemistry</i> , 2011, 662, 322-327.	1.9	8
59	Single-Use Printed Biosensor for L-Lactate and Its Application in Bioprocess Monitoring. <i>Processes</i> , 2020, 8, 321.	1.3	8
60	Amperometric detection of Francisella tularensis genomic sequence on Zn-mediated diazonium modified substrates. <i>Electrochemistry Communications</i> , 2015, 53, 6-10.	2.3	7
61	Fully Automated Microsystem for Unmediated Electrochemical Characterization, Visualization and Monitoring of Bacteria on Solid Media; E. coli K-12: A Case Study. <i>Biosensors</i> , 2019, 9, 131.	2.3	7
62	Study of the Effects of Nonlinear Potential Sweeps on Voltammetry. <i>Electroanalysis</i> , 2009, 21, 68-76.	1.5	6
63	DNA biosensor based on hybridization refractory mutation system approach for single mismatch detection. <i>Analytical Biochemistry</i> , 2015, 474, 66-68.	1.1	6
64	Disposable disposable microsystems for the genetic and serological analysis of celiac disease markers with amperometric detection. <i>Electrophoresis</i> , 2015, 36, 1920-1926.	1.3	4
65	Surface functionalisation of carbon for low cost fabrication of highly stable electrochemical DNA sensors. <i>Biosensors and Bioelectronics</i> , 2015, 71, 25-29.	5.3	4
66	Use of Nanocellulose to Produce Water-Based Conductive Inks with Ag NPs for Printed Electronics. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2946.	1.8	4
67	Study of the combination of the deposition/stripping of sacrificial metal nano-structures and alkanethiol as a route for genosensor surface preparation. <i>Electrochemistry Communications</i> , 2011, 13, 325-327.	2.3	1
68	Functionalized Deoxynucleotides and DNA Primers for Electrochemical Diagnostics of Disease Predispositions. <i>ECS Transactions</i> , 2017, 77, 1873-1883.	0.3	0