Ozlem Sel

List of Publications by Year
in descending order

54 papers	1,051 citations	430874 18 h-index	434195 31 g-index
54 all docs	54 docs citations	54 times ranked	1322 citing authors

#	ARTICLE	IF	CITATIONS
1	Aqueous Multivalent Charge Storage Mechanism in Aromatic Diamine-Based Organic Electrodes. ACS Applied Materials & Interfaces, 2022, 14, 8508-8520.	8.0	12
2	Interfacial charge storage mechanisms of composite electrodes based on poly(<i>ortho</i>-phenylenediamine)/carbon nanotubes via advanced electrogravimetry. Journal of Chemical Physics, 2022, 156, 124703.	3.0	5
3	Ion Dynamics at the Carbon Electrode/Electrolyte Interface: Influence of Carbon Nanotubes Types. Materials, 2022, 15, 1867.	2.9	6
4	Interface evolution and performance degradation in LiCoO2 composite battery electrodes monitoredÂby advanced EQCM. Electrochimica Acta, 2022, 413, 140171.	5.2	1
5	Probing the Electrodeâ€"Electrolyte Interface of a Model K-Ion Battery Electrodeâ"€The Origin of Rate Capability Discrepancy between Aqueous and Non-Aqueous Electrolytes. ACS Applied Materials & Interfaces, 2022, 14, 20835-20847.	8.0	4
6	Towards a high MnO₂ loading and gravimetric capacity from proton-coupled Mn⁴⁺/Mn²⁺ reactions using a 3D free-standing conducting scaffold. Journal of Materials Chemistry A, 2021, 9, 1500-1506.	10.3	12
7	Single Wall Carbon Nanotubes/Polypyrrole Composite Thin Film Electrodes: Investigation of Interfacial Ion Exchange Behavior. Journal of Composites Science, 2021, 5, 25.	3.0	2
8	Poly(<i>ortho</i>-phenylenediamine) overlaid fibrous carbon networks exhibiting a synergistic effect for enhanced performance in hybrid micro energy storage devices. Journal of Materials Chemistry A, 2021, 9, 10487-10496.	10.3	5
9	Scrutiny of the LiCoO₂ Composite Electrode/Electrolyte Interface by Advanced Electrogravimetry and Implications for Aqueous Li-Ion Batteries. Journal of Physical Chemistry C, 2021, 125, 3859-3867.	3.1	7
10	Preventing Graphene from Restacking <i>via</i> Bioinspired Chemical Inserts: Toward a Superior 2D Micro-supercapacitor Electrode. ACS Applied Nano Materials, 2021, 4, 4964-4973.	5.0	10
11	Electrosynthesis of hierarchical Cu2Oâ€"Cu(OH)2 nanodendrites supported on carbon nanofibers/poly(para-phenylenediamine) nanocomposite as high-efficiency catalysts for methanol electrooxidation. International Journal of Hydrogen Energy, 2021, 46, 19926-19938.	7.1	16
12	Scrutiny of Electrode/Electrolyte Interfaces and Electrode Degradation Mechanisms By Advanced Electrogravimetry: Implications in Energy Storage. ECS Meeting Abstracts, 2021, MA2021-02, 45-45.	0.0	0
13	High Performance 2D Micro-Supercapacitor Electrode Composed of Graphene with Polydopamine As Inserts. ECS Meeting Abstracts, 2021, MA2021-02, 536-536.	0.0	1
14	Elucidating the Origin of the Electrochemical Capacity in a Proton-Based Battery H_{<i>x</i>}IrO₄ via Advanced Electrogravimetry. ACS Applied Materials & Interfaces, 2020, 12, 4510-4519.	8.0	18
15	Prompt microwave-assisted synthesis of carbon coated Si nanocomposites as anode for lithium-ion batteries. Solid State Ionics, 2020, 354, 115409.	2.7	12
16	Electrically Conductive Thin Films Based on Nanofibrillated Cellulose: Interactions with Water and Applications in Humidity Sensing. ACS Applied Materials & Interfaces, 2020, 12, 36437-36448.	8.0	20
17	Making Advanced Electrogravimetry as an Affordable Analytical Tool for Battery Interface Characterization. Analytical Chemistry, 2020, 92, 13803-13812.	6.5	17
18	Deciphering the Influence of Electrolytes on the Energy Storage Mechanism of Vertically-Oriented Graphene Nanosheet Electrodes by Using Advanced Electrogravimetric Methods. Nanomaterials, 2020, 10, 2451.	4.1	0

#	Article	IF	Citations
19	Insights into Redox Reactions and Ionic Transfers in Nickel/Iron Layered Double Hydroxide in Potassium Hydroxide. Journal of Physical Chemistry C, 2020, 124, 3037-3049.	3.1	9
20	Synthesis of carbon nanofibers/poly(para-phenylenediamine)/nickel particles nanocomposite for enhanced methanol electrooxidation. International Journal of Hydrogen Energy, 2019, 44, 24534-24545.	7.1	30
21	Charge Storage Properties of Nanostructured Poly (3,4â€“ethylenedioxythiophene) Electrodes Revealed by Advanced Electrogravimetry. Nanomaterials, 2019, 9, 962.	4.1	4
22	Correlation between the interfacial ion dynamics and charge storage properties of poly(ortho-phenylenediamine) electrodes exhibiting high cycling stability. Journal of Power Sources, 2019, 438, 227032.	7.8	9
23	Ion Dynamics at the Single Wall Carbon Nanotube Based Composite Electrode/Electrolyte Interface: Influence of the Cation Size and Electrolyte pH. Journal of Physical Chemistry C, 2019, 123, 4262-4273.	3.1	9
24	Electrochemically Reduced Graphene Oxideâ€Sheltered ZnO Nanostructures Showing Enhanced Electrochemical Performance Revealed by an In Situ Electrogravimetric Study. Advanced Materials Interfaces, 2019, 6, 1801855.	3.7	5
25	Understanding the energy storage mechanisms of poly(3,4-ethylenedioxythiophene)-coated silicon nanowires by electrochemical quartz crystal microbalance. Materials Letters, 2019, 240, 59-61.	2.6	13
26	Tuning Charge Storage Properties of Supercapacitive Electrodes Evidenced by In Situ Gravimetric and Viscoelastic Explorations. Analytical Chemistry, 2019, 91, 2885-2893.	6.5	16
27	In-situ tracking of NaFePO4 formation in aqueous electrolytes and its electrochemical performances in Na-ion/polysulfide batteries. Journal of Power Sources, 2019, 412, 55-62.	7.8	30
28	Charge storage properties of single wall carbon nanotubes/Prussian blue nanocube composites studied by multi-scale coupled electrogravimetric methods. Electrochimica Acta, 2018, 271, 297-304.	5.2	7
29	Tracking the interfacial charge transfer behavior of hydrothermally synthesized ZnO nanostructures <i>via</i> complementary electrogravimetric methods. Physical Chemistry Chemical Physics, 2018, 20, 27140-27148.	2.8	7
30	Enhanced proton transport properties of Nafion via functionalized halloysite nanotubes. International Journal of Hydrogen Energy, 2018, 43, 18578-18591.	7.1	20
31	Electrochemical and viscoelastic evolution of dodecyl sulfate-doped polypyrrole films during electrochemical cycling. Electrochimica Acta, 2017, 233, 262-273.	5.2	16
32	Dynamic Resolution of Ion Transfer in Electrochemically Reduced Graphene Oxides Revealed by Electrogravimetric Impedance. Journal of Physical Chemistry C, 2017, 121, 9370-9380.	3.1	23
33	Correlation between the proton conductivity and diffusion coefficient of sulfonic acid functionalized chitosan and Nafion composites via impedance spectroscopy measurements. Ionics, 2017, 23, 2221-2227.	2.4	2
34	Sulfonic Acid Functionalized Chitosan as a Sustainable Component for Proton Conductivity Management in PEMs. ChemistrySelect, 2017, 2, 2503-2511.	1.5	8
35	Poly(neutral red) on passivated nickel films. New insights through EQCM measurements. Russian Journal of Electrochemistry, 2016, 52, 1137-1149.	0.9	3
36	Gravimetric and dynamic deconvolution of global EQCM response of carbon nanotube based electrodes by Ac-electrogravimetry. Electrochemistry Communications, 2016, 70, 73-77.	4.7	40

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37	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. Chemistry of Materials, 2016, 28, 7793-7806.	6.7	28
38	Proton Transport in Electrospun Hybrid Organicâ€“Inorganic Membranes: An Illuminating Paradox. Advanced Functional Materials, 2016, 26, 594-604.	14.9	14
39	Formation and transformation of a short range ordered iron carbonate precursor. Geochimica Et Cosmochimica Acta, 2015, 164, 94-109.	3.9	39
40	Ion intercalation dynamics of electrosynthesized mesoporous WO₃ thin films studied by multi-scale coupled electrogravimetric methods. Physical Chemistry Chemical Physics, 2015, 17, 14773-14787.	2.8	19
41	Proton Diffusion Coefficient in Electrospun Hybrid Membranes by Electrochemical Impedance Spectroscopy. Langmuir, 2015, 31, 9737-9741.	3.5	4
42	New Insights into Pseudocapacitive Charge-Storage Mechanisms in Li-Birnessite Type MnO₂ Monitored by Fast Quartz Crystal Microbalance Methods. Journal of Physical Chemistry C, 2014, 118, 26551-26559.	3.1	49
43	Determination of the Diffusion Coefficient of Protons in Nafion Thin Films by <i>ac</i>-Electrogravimetry. Langmuir, 2013, 29, 13655-13660.	3.5	30
44	Frequency/voltage conversion circuit for alternating current electrogravimetry. Electronics Letters, 2013, 49, 1064-1066.	1.0	2
45	Amorphous iron (II) carbonate: Crystallization energetics and comparison to other carbonate minerals related to CO2 sequestration. Geochimica Et Cosmochimica Acta, 2012, 87, 61-68.	3.9	53
46	Original Fuelâ€Cell Membranes from Crosslinked Terpolymers via a â€œSolâ€“gelâ€•Strategy. Advanced Functional Materials, 2010, 20, 1090-1098.	14.9	53
47	Proton transport properties in hybrid membranes investigated by ac-electrogravimetry. Electrochemistry Communications, 2010, 12, 1136-1139.	4.7	19
48	Design and Development of High-Performance Hybrid Inorganic-Organic Fuel Cell Membranes. ECS Transactions, 2009, 25, 1091-1099.	0.5	0
49	Design, Synthesis, Structural and Textural Characterization, and Electrical Properties of Mesoporous Thin Films Made of Rare Earth Oxide Binaries. Chemistry of Materials, 2009, 21, 2184-2192.	6.7	39
50	Designing meso- and macropore architectures in hybrid organicâ€“inorganic membranes by combining surfactant and breath figure templating (BFT). Physical Chemistry Chemical Physics, 2009, 11, 3733.	2.8	29
51	Pore Hierarchy in Mesoporous Silicas Evidenced by In-Situ SANS during Nitrogen Physisorption. Langmuir, 2007, 23, 4724-4727.	3.5	45
52	Binding of Ion Pairs onto Polymer Gels via Dehydration Entropy:Â A New Mechanism for Ion Exchange. Macromolecules, 2006, 39, 6310-6312.	4.8	12
53	Principles of Hierarchical Meso- and Macropore Architectures by Liquid Crystalline and Polymer Colloid Templating. Langmuir, 2006, 22, 2311-2322.	3.5	169
54	Preparation of a large Mesoporous CeO2 with crystalline walls using PMMA colloidal crystal templates. Colloid and Polymer Science, 2006, 285, 1-9.	2.1	48