

# Ozlem Sel

## List of Publications by Year in descending order

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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	Principles of Hierarchical Meso- and Macropore Architectures by Liquid Crystalline and Polymer Colloid Templating. <i>Langmuir</i> , 2006, 22, 2311-2322.	3.5	169
2	Original Fuel Cell Membranes from Crosslinked Terpolymers via a "Sol-gel" Strategy. <i>Advanced Functional Materials</i> , 2010, 20, 1090-1098.	14.9	53
3	Amorphous iron (II) carbonate: Crystallization energetics and comparison to other carbonate minerals related to CO <sub>2</sub> sequestration. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 87, 61-68.	3.9	53
4	New Insights into Pseudocapacitive Charge-Storage Mechanisms in Li-Birnessite Type MnO <sub>2</sub> Monitored by Fast Quartz Crystal Microbalance Methods. <i>Journal of Physical Chemistry C</i> , 2014, 118, 26551-26559.	3.1	49
5	Preparation of a large Mesoporous CeO <sub>2</sub> with crystalline walls using PMMA colloidal crystal templates. <i>Colloid and Polymer Science</i> , 2006, 285, 1-9.	2.1	48
6	Pore Hierarchy in Mesoporous Silicas Evidenced by In-Situ SANS during Nitrogen Physisorption. <i>Langmuir</i> , 2007, 23, 4724-4727.	3.5	45
7	Gravimetric and dynamic deconvolution of global EQCM response of carbon nanotube based electrodes by Ac-electrogravimetry. <i>Electrochemistry Communications</i> , 2016, 70, 73-77.	4.7	40
8	Design, Synthesis, Structural and Textural Characterization, and Electrical Properties of Mesoporous Thin Films Made of Rare Earth Oxide Binaries. <i>Chemistry of Materials</i> , 2009, 21, 2184-2192.	6.7	39
9	Formation and transformation of a short range ordered iron carbonate precursor. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 94-109.	3.9	39
10	Determination of the Diffusion Coefficient of Protons in Nafion Thin Films by <i>ac</i> -Electrogravimetry. <i>Langmuir</i> , 2013, 29, 13655-13660.	3.5	30
11	Synthesis of carbon nanofibers/poly(para-phenylenediamine)/nickel particles nanocomposite for enhanced methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24534-24545.	7.1	30
12	In-situ tracking of NaFePO <sub>4</sub> formation in aqueous electrolytes and its electrochemical performances in Na-ion/polysulfide batteries. <i>Journal of Power Sources</i> , 2019, 412, 55-62.	7.8	30
13	Designing meso- and macropore architectures in hybrid organic-inorganic membranes by combining surfactant and breath figure templating (BFT). <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3733.	2.8	29
14	Dynamic Characterization of Inter- and Intralamellar Domains of Cobalt-Based Layered Double Hydroxides upon Electrochemical Oxidation. <i>Chemistry of Materials</i> , 2016, 28, 7793-7806.	6.7	28
15	Dynamic Resolution of Ion Transfer in Electrochemically Reduced Graphene Oxides Revealed by Electrogravimetric Impedance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 9370-9380.	3.1	23
16	Enhanced proton transport properties of Nafion via functionalized halloysite nanotubes. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18578-18591.	7.1	20
17	Electrically Conductive Thin Films Based on Nanofibrillated Cellulose: Interactions with Water and Applications in Humidity Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36437-36448.	8.0	20
18	Proton transport properties in hybrid membranes investigated by <i>ac</i> -electrogravimetry. <i>Electrochemistry Communications</i> , 2010, 12, 1136-1139.	4.7	19

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19	Ion intercalation dynamics of electrosynthesized mesoporous WO <sub>3</sub> thin films studied by multi-scale coupled electrogravimetric methods. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 14773-14787.	2.8	19
20	Elucidating the Origin of the Electrochemical Capacity in a Proton-Based Battery H <sub>x</sub> IrO <sub>4</sub> via Advanced Electrogravimetry. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4510-4519.	8.0	18
21	Making Advanced Electrogravimetry as an Affordable Analytical Tool for Battery Interface Characterization. <i>Analytical Chemistry</i> , 2020, 92, 13803-13812.	6.5	17
22	Electrochemical and viscoelastic evolution of dodecyl sulfate-doped polypyrrole films during electrochemical cycling. <i>Electrochimica Acta</i> , 2017, 233, 262-273.	5.2	16
23	Tuning Charge Storage Properties of Supercapacitive Electrodes Evidenced by In Situ Gravimetric and Viscoelastic Explorations. <i>Analytical Chemistry</i> , 2019, 91, 2885-2893.	6.5	16
24	Electrosynthesis of hierarchical Cu <sub>2</sub> O@Cu(OH) <sub>2</sub> nanodendrites supported on carbon nanofibers/poly(para-phenylenediamine) nanocomposite as high-efficiency catalysts for methanol electrooxidation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 19926-19938.	7.1	16
25	Proton Transport in Electrospun Hybrid Organic-Inorganic Membranes: An Illuminating Paradox. <i>Advanced Functional Materials</i> , 2016, 26, 594-604.	14.9	14
26	Understanding the energy storage mechanisms of poly(3,4-ethylenedioxythiophene)-coated silicon nanowires by electrochemical quartz crystal microbalance. <i>Materials Letters</i> , 2019, 240, 59-61.	2.6	13
27	Binding of Ion Pairs onto Polymer Gels via Dehydration Entropy: A New Mechanism for Ion Exchange. <i>Macromolecules</i> , 2006, 39, 6310-6312.	4.8	12
28	Prompt microwave-assisted synthesis of carbon coated Si nanocomposites as anode for lithium-ion batteries. <i>Solid State Ionics</i> , 2020, 354, 115409.	2.7	12
29	Towards a high MnO <sub>2</sub> loading and gravimetric capacity from proton-coupled Mn <sup>4+</sup> /Mn <sup>2+</sup> reactions using a 3D free-standing conducting scaffold. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1500-1506.	10.3	12
30	Aqueous Multivalent Charge Storage Mechanism in Aromatic Diamine-Based Organic Electrodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 8508-8520.	8.0	12
31	Preventing Graphene from Restacking via Bioinspired Chemical Inserts: Toward a Superior 2D Micro-supercapacitor Electrode. <i>ACS Applied Nano Materials</i> , 2021, 4, 4964-4973.	5.0	10
32	Correlation between the interfacial ion dynamics and charge storage properties of poly(ortho-phenylenediamine) electrodes exhibiting high cycling stability. <i>Journal of Power Sources</i> , 2019, 438, 227032.	7.8	9
33	Ion Dynamics at the Single Wall Carbon Nanotube Based Composite Electrode/Electrolyte Interface: Influence of the Cation Size and Electrolyte pH. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4262-4273.	3.1	9
34	Insights into Redox Reactions and Ionic Transfers in Nickel/Iron Layered Double Hydroxide in Potassium Hydroxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3037-3049.	3.1	9
35	Sulfonic Acid Functionalized Chitosan as a Sustainable Component for Proton Conductivity Management in PEMs. <i>ChemistrySelect</i> , 2017, 2, 2503-2511.	1.5	8
36	Charge storage properties of single wall carbon nanotubes/Prussian blue nanocube composites studied by multi-scale coupled electrogravimetric methods. <i>Electrochimica Acta</i> , 2018, 271, 297-304.	5.2	7

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37	Tracking the interfacial charge transfer behavior of hydrothermally synthesized ZnO nanostructures via complementary electrogravimetric methods. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 27140-27148.	2.8	7
38	Scrutiny of the LiCoO <sub>2</sub> Composite Electrode/Electrolyte Interface by Advanced Electrogravimetry and Implications for Aqueous Li-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 3859-3867.	3.1	7
39	Ion Dynamics at the Carbon Electrode/Electrolyte Interface: Influence of Carbon Nanotubes Types. <i>Materials</i> , 2022, 15, 1867.	2.9	6
40	Electrochemically Reduced Graphene Oxide-Sheltered ZnO Nanostructures Showing Enhanced Electrochemical Performance Revealed by an In Situ Electrogravimetric Study. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801855.	3.7	5
41	Poly(ortho-phenylenediamine) overlaid fibrous carbon networks exhibiting a synergistic effect for enhanced performance in hybrid micro energy storage devices. <i>Journal of Materials Chemistry A</i> , 2021, 9, 10487-10496.	10.3	5
42	Interfacial charge storage mechanisms of composite electrodes based on poly(ortho-phenylenediamine)/carbon nanotubes via advanced electrogravimetry. <i>Journal of Chemical Physics</i> , 2022, 156, 124703.	3.0	5
43	Proton Diffusion Coefficient in Electrospun Hybrid Membranes by Electrochemical Impedance Spectroscopy. <i>Langmuir</i> , 2015, 31, 9737-9741.	3.5	4
44	Charge Storage Properties of Nanostructured Poly(3,4-ethylenedioxythiophene) Electrodes Revealed by Advanced Electrogravimetry. <i>Nanomaterials</i> , 2019, 9, 962.	4.1	4
45	Probing the Electrode-Electrolyte Interface of a Model K-Ion Battery Electrode-The Origin of Rate Capability Discrepancy between Aqueous and Non-Aqueous Electrolytes. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 20835-20847.	8.0	4
46	Poly(neutral red) on passivated nickel films. New insights through EQCM measurements. <i>Russian Journal of Electrochemistry</i> , 2016, 52, 1137-1149.	0.9	3
47	Frequency/voltage conversion circuit for alternating current electrogravimetry. <i>Electronics Letters</i> , 2013, 49, 1064-1066.	1.0	2
48	Correlation between the proton conductivity and diffusion coefficient of sulfonic acid functionalized chitosan and Nafion composites via impedance spectroscopy measurements. <i>Ionics</i> , 2017, 23, 2221-2227.	2.4	2
49	Single Wall Carbon Nanotubes/Polypyrrole Composite Thin Film Electrodes: Investigation of Interfacial Ion Exchange Behavior. <i>Journal of Composites Science</i> , 2021, 5, 25.	3.0	2
50	High Performance 2D Micro-Supercapacitor Electrode Composed of Graphene with Polydopamine As Inserts. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 536-536.	0.0	1
51	Interface evolution and performance degradation in LiCoO <sub>2</sub> composite battery electrodes monitored by advanced EQCM. <i>Electrochimica Acta</i> , 2022, 413, 140171.	5.2	1
52	Design and Development of High-Performance Hybrid Inorganic-Organic Fuel Cell Membranes. <i>ECS Transactions</i> , 2009, 25, 1091-1099.	0.5	0
53	Deciphering the Influence of Electrolytes on the Energy Storage Mechanism of Vertically-Oriented Graphene Nanosheet Electrodes by Using Advanced Electrogravimetric Methods. <i>Nanomaterials</i> , 2020, 10, 2451.	4.1	0
54	Scrutiny of Electrode/Electrolyte Interfaces and Electrode Degradation Mechanisms By Advanced Electrogravimetry: Implications in Energy Storage. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 45-45.	0.0	0