RESEARCH & PUBLICATIONS

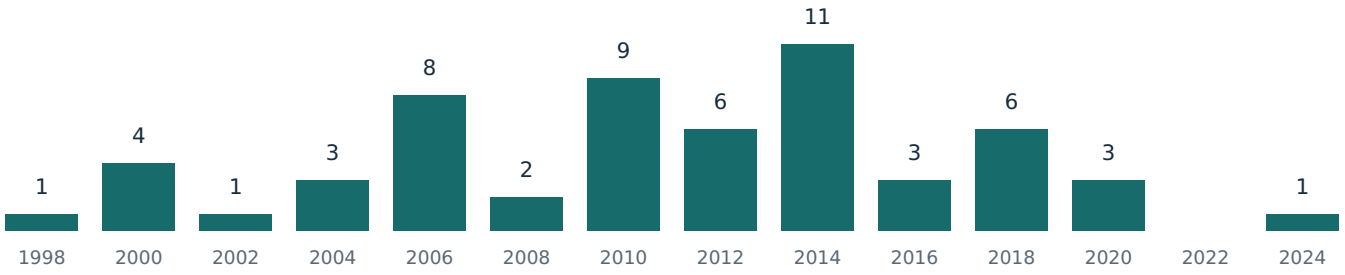
Gregory Salitra

A publication record at a glance

59	16,872	34
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 2-year periods



1 articles have no publication year in the database.

MOST CITED IN THIS LIST

Challenges in the Development of Advanced Li-Ion Batteries: A Review — 6,593
2011 Energy and Environmental Science

On the Surface Chemical Aspects of Very High Energy Density, Rechargeable Li–Sulfur Batteries — 1,436
2009 Journal of the Electrochemical Society

Sulfur-Impregnated Activated Carbon Fiber Cloth as a Binder-Free Cathode for Rechargeable Li-S Batteries — 897
2011 Advanced Materials

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Ordered by publication year, newest first

2024

01 **CF3-Substituted Ethylene Carbonates for High-Voltage/High-Energy Rechargeable Lithium Metal–LiNi0.8Co0.1Mn0.1O2 Batteries**

6 citations

ACS Applied Materials & Interfaces · 16, 43602-43616

https://exaly.com/article/188030730

2021

02 **High Energy Density Rechargeable Batteries Based on Li Metal Anodes. The Role of Unique Surface Chemistry Developed in Solutions Containing Fluorinated Organic Co-Solvents**

159 citations

Journal of the American Chemical Society · 143, 21161-21176

https://exaly.com/article/123117644

2020

03 **Improved Performance of Li-Metal|LiNi0.8Co0.1Mn0.1O2 Cells With High-Loading Cathodes and Small Amounts of Electrolyte Solutions Containing Fluorinated Carbonates at 30 °C–55 °C**

28 citations

Journal of the Electrochemical Society · 167, 070509

https://exaly.com/article/77435625

04 **Evaluating the High-Voltage Stability of Conductive Carbon and Ethylene Carbonate With Various Lithium Salts**

73 citations

Journal of the Electrochemical Society · 167, 160522

https://exaly.com/article/86175214

2019

05 **Stable LiNi0.8Co0.1Mn0.1O2|Li Metal Cells With Practical Loading at 30 Degrees C and Elevated Temperatures**

9 citations

Journal of the Electrochemical Society · 166, A2834

https://exaly.com/article/71974608

06 **SiO2-Modified Separators: Stability in LiPF6-Containing Electrolyte Solutions and Effect on Cycling Performance of Li Batteries**

18 citations

Journal of the Electrochemical Society · 166, A1685

https://exaly.com/article/73132922

07 **New Insights Related to Rechargeable Lithium Batteries: Li Metal Anodes, Ni Rich LiNixCoyMnzO2 Cathodes and Beyond Them**

43 citations

Journal of the Electrochemical Society · 166, A5265

https://exaly.com/article/74649465

Ordered by publication year, newest first

2018

08 **High-Performance Cells Containing Lithium Metal Anodes, LiNi0.6Co0.2Mn0.2O2 (NCM 622) Cathodes, and Fluoroethylene Carbonate-Based Electrolyte Solution With Practical Loading**

93 citations

ACS Applied Materials & Interfaces · 10, 19773-19782

https://exaly.com/article/71062891

09 **High-Performance LiNiO2 Cathodes With Practical Loading Cycled With Li Metal Anodes in Fluoroethylene Carbonate-Based Electrolyte Solution**

51 citations

ACS Applied Energy Materials · 1, 2600-2607

https://exaly.com/article/71127455

10 **Fluoroethylene Carbonate-Based Organic Electrolyte Solution for Very Stable Lithium Metal Stripping–Plating at a High Rate and High Areal Capacity**

1 citations

ECS Meeting Abstracts · MA2018-01, 462

https://exaly.com/article/112422180

2017

11 **Fluoroethylene Carbonate as an Important Component for the Formation of an Effective Solid Electrolyte Interphase on Anodes and Cathodes for Advanced Li-Ion Batteries**

489 citations

ACS Energy Letters · 2, 1337-1345

https://exaly.com/article/66276068

12 **Very Stable Lithium Metal Stripping–Plating at a High Rate and High Areal Capacity in Fluoroethylene Carbonate-Based Organic Electrolyte Solution**

454 citations

ACS Energy Letters · 2, 1321-1326

https://exaly.com/article/66282373

2016

13 **The Effect of Solid Electrolyte Interphase on the Mechanism of Operation of Lithium-Sulfur Batteries**

0 citations

ECS Meeting Abstracts · MA2016-03, 813

https://exaly.com/article/109324162

2015

14 **The Effect of Interactions and Reduction Products of LiNO3, the Anti-Shuttle Agent, in Li-S Battery Systems**

210 citations

Journal of the Electrochemical Society · 162, A470

https://exaly.com/article/61749294

Ordered by publication year, newest first

2015 / continued

15 **Review on Li-Sulfur Battery Systems: An Integral Perspective**
Advanced Energy Materials · 5, 1500212
https://exaly.com/article/62326750
758 citations

16 **Review—Development of Advanced Rechargeable Batteries: A Continuous Challenge in the Choice of Suitable Electrolyte Solutions**
Journal of the Electrochemical Society · 162, A2424
https://exaly.com/article/62589638
164 citations

17 **Constraints of the Shuttle Mechanism in Li-S Batteries**
ECS Meeting Abstracts · MA2015-02, 36-36
https://exaly.com/article/107823448
0 citations

2014

18 **High-Performance Lithium–Sulfur Batteries Based on Ionic-Liquid Electrolytes With Bis(Fluorolsufonyl)Imide Anions and Sulfur-Encapsulated Highly Disordered Activated Carbon**
ChemElectroChem · 1, 1492-1496
https://exaly.com/article/58319186
25 citations

19 **Electrochemical Quartz Crystal Admittance Studies of Ion Adsorption on Nanoporous Composite Carbon Electrodes in Aprotic Solutions**
Journal of Solid State Electrochemistry · 18, 1335-1344
https://exaly.com/article/58784386
16 citations

20 **On the Challenge of Developing Advanced Technologies for Electrochemical Energy Storage and Conversion**
Materials Today · 17, 110-121
https://exaly.com/article/58911700
656 citations

21 **Fluoroethylene Carbonate as an Important Component in Electrolyte Solutions for High-Voltage Lithium Batteries: Role of Surface Chemistry on the Cathode**
Langmuir · 30, 7414-24
https://exaly.com/article/59533400
185 citations

22 **Li-S Cathodes With Extended Cycle Life by Sulfur Encapsulation in Disordered Micro-Porous Carbon Powders**
Journal of the Electrochemical Society · 161, A657
https://exaly.com/article/59716304
15 citations

Ordered by publication year, newest first

2014 / continued

23 Amorphous Columnar Silicon Anodes With Excellent Cycling Stability for Advanced High Voltage Lithium Ion Full Cells: Dominant Factors Governing Cycling Performance

ECS Meeting Abstracts · MA2014-04, 383

https://exaly.com/article/101610902

0 citations

24 Li-S Cathodes With Extended Cycle Life by Sulfur Encapsulation in Disordered Micro-Porous Carbon Powders

ECS Meeting Abstracts · MA2014-04, 552-552

https://exaly.com/article/101705239

0 citations

2013

25 Collective Phase Transition Dynamics in Microarray Composite LixFePO4 Electrodes Tracked by in Situ Electrochemical Quartz Crystal Admittance

Journal of Physical Chemistry C · 117, 15505-15514

https://exaly.com/article/54950524

37 citations

26 In Situ Tracking of Ion Insertion in Iron Phosphate Olivine Electrodes via Electrochemical Quartz Crystal Admittance

Journal of Physical Chemistry C · 117, 1247-1256

https://exaly.com/article/55439245

38 citations

27 An Advanced Lithium Ion Battery Based on Amorphous Silicon Film Anode and Integrated xLi2MnO3.(1-x)LiNiyMnzCo1-y-zO2 Cathode

ECS Electrochemistry Letters · 2, A84

https://exaly.com/article/56796284

30 citations

2012

28 Li Ion Cells Comprising Lithiated Columnar Silicon Film Anodes, TiS2 Cathodes and Fluoroethyene Carbonate (FEC) as a Critically Important Component

Journal of the Electrochemical Society · 159, A1440

https://exaly.com/article/53581653

92 citations

29 Selective Adsorption of Multivalent Ions Into TiC-Derived Nanoporous Carbon

Carbon · 50, 3957-3960

https://exaly.com/article/54478432

28 citations

30 Rechargeable Lithiated Silicon–Sulfur (SLS) Battery Prototypes

Electrochemistry Communications · 14, 21-24

https://exaly.com/article/54523254

150 citations

Ordered by publication year, newest first

2011

31 **Assessing the Solvation Numbers of Electrolytic Ions Confined in Carbon Nanopores Under Dynamic Charging Conditions**
98 citations
Journal of Physical Chemistry Letters · 2, 120-4
https://exaly.com/article/50406044

32 **Quartz Crystal Impedance Response of Nonhomogenous Composite Electrodes in Contact With Liquids**
29 citations
Analytical Chemistry · 83, 9614-21
https://exaly.com/article/51211490

33 **Challenges in the Development of Advanced Li-Ion Batteries: A Review**
6,593 citations
Energy and Environmental Science · 4, 3243-3262
https://exaly.com/article/51212895

34 **Sulfur-Impregnated Activated Carbon Fiber Cloth as a Binder-Free Cathode for Rechargeable Li-S Batteries**
897 citations
Advanced Materials · 23, 5641-5644
https://exaly.com/article/51486690

35 **The Effect of Specific Adsorption of Cations and Their Size on the Charge-Compensation Mechanism in Carbon Micropores: The Role of Anion Desorption**
72 citations
ChemPhysChem · 12, 854-862
https://exaly.com/article/51503405

2010

36 **EQCM as a Unique Tool for Determination of Ionic Fluxes in Microporous Carbons as a Function of Surface Charge Distribution**
48 citations
Electrochemistry Communications · 12, 1718-1721
https://exaly.com/article/48375321

37 **The Effects of Geometry on Magnetic Response of Elliptical PHE Sensors**
6 citations
Journal of Applied Physics
https://exaly.com/article/49133657

38 **Electrochemical Quartz Crystal Microbalance (EQCM) Studies of Ions and Solvents Insertion Into Highly Porous Activated Carbons**
185 citations
Journal of the American Chemical Society · 132, 13220-2
https://exaly.com/article/49459842

39 **Morphological and Structural Studies of Composite Sulfur Electrodes Upon Cycling by HRTEM, AFM and Raman Spectroscopy**
180 citations
Journal of the Electrochemical Society · 157, A1131
https://exaly.com/article/49596145

Ordered by publication year, newest first

2009

40 **On the Surface Chemical Aspects of Very High Energy Density, Rechargeable Li–Sulfur Batteries**

1,436 citations

Journal of the Electrochemical Society · 156, A694

https://exaly.com/article/47156041

2008

41 **Review on Engineering and Characterization of Activated Carbon Electrodes for Electrochemical Double Layer Capacitors and Separation Processes**

19 citations

Israel Journal of Chemistry · 48, 287-303

https://exaly.com/article/43858708

2007

42 **In Situ Conductivity, Impedance Spectroscopy, and Ex Situ Raman Spectra of Amorphous Silicon During the Insertion/Extraction of Lithium**

259 citations

Journal of Physical Chemistry C · 111, 11437-11444

https://exaly.com/article/42184208

43 **Review on Electrode–Electrolyte Solution Interactions, Related to Cathode Materials for Li-Ion Batteries**

702 citations

Journal of Power Sources · 165, 491-499

https://exaly.com/article/42719634

44 **Can Conductivity Measurements Serve as a Tool for Assessing Pseudocapacitance Processes Occurring on Carbon Electrodes?**

5 citations

Journal of Electroanalytical Chemistry · 602, 195-202

https://exaly.com/article/42737625

45 **The Anomaly in the Dependence of the Electronic Conductivity of Activated Carbon Electrodes at Different Charging States**

7 citations

Journal of Electroanalytical Chemistry · 601, 47-52

https://exaly.com/article/43188212

46 **On the Performance of Graphitized Meso Carbon Microbeads (MCMB)–Meso Carbon Fibers (MCF) and Synthetic Graphite Electrodes at Elevated Temperatures**

36 citations

Journal of Power Sources · 174, 1263-1269

https://exaly.com/article/43191043

2006

47 **The Dependence of the Electronic Conductivity of Carbon Molecular Sieve Electrodes on Their Charging States**

30 citations

Journal of Physical Chemistry B · 110, 7443-8

https://exaly.com/article/39828840

Ordered by publication year, newest first

2006 / continued

48 Electrical Conductivity, as a Tool for Studying Processes in Carbonaceous Materials. Monitoring the CarbonizationProcess and Oxygen Chemisorption

0 citations

ECS Meeting Abstracts · MA2005-01, 892

https://exaly.com/article/93721727

49 The Dependence of the Electronic Conductivity of Carbon Molecular Sieve Electrodes on Their Charging States.

0 citations

ECS Meeting Abstracts · MA2006-02, 1286

https://exaly.com/article/94221464

2005

50 Enhanced Anion Electroadsorption Into Carbon Molecular Sieve Electrodes in Acidic Media

9 citations

Langmuir · 21, 10615-23

https://exaly.com/article/39294937

51 On the Mechanism of Selective Electroadsorption of Protons in the Pores of Carbon Molecular Sieves

55 citations

Langmuir · 21, 3198-202

https://exaly.com/article/39299559

2004

52 Leaching Chemistry and the Performance of the Mo6S8 Cathodes in Rechargeable Mg Batteries

111 citations

Chemistry of Materials · 16, 2832-2838

https://exaly.com/article/37251158

2002

53 Proton-Selective Environment in the Pores of Activated Molecular Sieving Carbon Electrodes

35 citations

Journal of Physical Chemistry B · 106, 10128-10134

https://exaly.com/article/34030745

2001

54 Ion Sieving Effects in the Electrical Double Layer of Porous Carbon Electrodes: Estimating Effective Ion Size in Electrolytic Solutions

389 citations

Journal of Physical Chemistry B · 105, 6880-6887

https://exaly.com/article/32295362

Ordered by publication year, newest first

2001 / continued

55 **Study of Lithium Insertion Into Electrochemically Synthesized Sodium–Vanadium Oxide**

Journal of Power Sources · 97, 486-490

https://exaly.com/article/32944714

8 citations

2000

56 **Carbon Electrodes for Double-Layer Capacitors I. Relations Between Ion and Pore Dimensions**

Journal of the Electrochemical Society · 147, 2486

https://exaly.com/article/31575110

634 citations

57 **The Study of Surface Phenomena Related to Electrochemical Lithium Intercalation Into Lix MO y Host Materials (M = Ni, Mn)**

Journal of the Electrochemical Society · 147, 1322

https://exaly.com/article/32227081

549 citations

1998

58 **Common Electroanalytical Behavior of Li Intercalation Processes Into Graphite and Transition Metal Oxides**

Journal of the Electrochemical Society · 145, 3024

https://exaly.com/article/29411127

652 citations

Year unavailable

59 **Title unavailable**

Journal unavailable

https://exaly.com/article/229373945

0 citations

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