

# Keld West

## List of Publications by Citations

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90  
papers

4,616  
citations

35  
h-index

66  
g-index

90  
ext. papers

4,842  
ext. citations

5.3  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
90	Vapor-Phase Polymerization of 3,4-Ethylenedioxythiophene: A Route to Highly Conducting Polymer Surface Layers. <i>Macromolecules</i> , <b>2004</b> , 37, 4538-4543	5.5	341
89	Diffusion impedance in planar, cylindrical and spherical symmetry. <i>Electrochimica Acta</i> , <b>1995</b> , 40, 255-262.	6.7	224
88	Mechanism of Actuation in Conducting Polymers: Osmotic Expansion. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 8492-8497	3.4	205
87	Lithium insertion in different TiO <sub>2</sub> modifications. <i>Solid State Ionics</i> , <b>1988</b> , 28-30, 1176-1182	3.3	197
86	A Conducting Polymer Artificial Muscle with 12 % Linear Strain. <i>Advanced Materials</i> , <b>2003</b> , 15, 310-313	24	178
85	Dynamic Aspects of Solid Solution Cathodes for Electrochemical Power Sources. <i>Journal of the Electrochemical Society</i> , <b>1979</b> , 126, 1311-1321	3.9	161
84	Vapor Phase Polymerization of Pyrrole and Thiophene Using Iron(III) Sulfonates as Oxidizing Agents. <i>Macromolecules</i> , <b>2004</b> , 37, 5930-5935	5.5	158
83	Highly Stretchable and Conductive Polymer Material Made from Poly(3,4-ethylenedioxythiophene) and Polyurethane Elastomers. <i>Advanced Functional Materials</i> , <b>2007</b> , 17, 3069-3073	15.6	152
82	Electrochemical reaction rates in a dye-sensitized solar cell—the iodide/tri-iodide redox system. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 341-351	6.4	139
81	Comparison of LiV <sub>3</sub> O <sub>8</sub> Cathode Materials Prepared by Different Methods. <i>Journal of the Electrochemical Society</i> , <b>1996</b> , 143, 820-825	3.9	139
80	Lithium Intercalation into Layered LiMnO <sub>2</sub> . <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 2587-2592	3.9	134
79	Base inhibited oxidative polymerization of 3,4-ethylenedioxythiophene with iron(III)tosylate. <i>Synthetic Metals</i> , <b>2005</b> , 152, 1-4	3.6	133
78	Vanadium oxide xerogels as electrodes for lithium batteries. <i>Electrochimica Acta</i> , <b>1993</b> , 38, 1215-1220	6.7	104
77	Optimizations of large area quasi-solid-state dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 2575-2588	6.4	100
76	Quasi-solid-state dye-sensitized solar cells: Pt and PEDOT:PSS counter electrodes applied to gel electrolyte assemblies. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2007</b> , 187, 395-401	4.7	90
75	Vanadium oxides as electrode materials for rechargeable lithium cells. <i>Journal of Power Sources</i> , <b>1987</b> , 20, 165-172	8.9	81
74	All oxide solid-state lithium-ion cells. <i>Journal of Power Sources</i> , <b>1997</b> , 68, 412-415	8.9	80

73	Modeling of Porous Insertion Electrodes with Liquid Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 1480-1485	3.9	75
72	Mixed phase solid electrolytes. <i>Solid State Ionics</i> , <b>1988</b> , 28-30, 975-978	3.3	70
71	Polypyrrole Doped with Alkyl Benzenesulfonates. <i>Macromolecules</i> , <b>2002</b> , 35, 9345-9351	5.5	69
70	Order-disorder transitions in poly(3,4-ethylenedioxythiophene). <i>Polymer</i> , <b>2008</b> , 49, 481-487	3.9	64
69	Electrochemical properties of non-stoichiometric V6O13. <i>Electrochimica Acta</i> , <b>1983</b> , 28, 1829-1833	6.7	64
68	V6O13 As cathode material for lithium cells. <i>Journal of Power Sources</i> , <b>1985</b> , 14, 235-245	8.9	62
67	Simultaneous anion and cation mobility in polypyrrole. <i>Solid State Ionics</i> , <b>2003</b> , 159, 143-147	3.3	60
66	Sodium insertion in vanadium oxides. <i>Solid State Ionics</i> , <b>1988</b> , 28-30, 1128-1131	3.3	57
65	Lithium insertion into vanadium pentoxide bronzes. <i>Solid State Ionics</i> , <b>1995</b> , 76, 15-21	3.3	55
64	Mechanochemical Synthesis of FeS Materials. <i>Journal of Solid State Chemistry</i> , <b>1998</b> , 138, 114-125	3.3	54
63	Stability of highly conductive poly-3,4-ethylene-dioxythiophene. <i>Reactive and Functional Polymers</i> , <b>2006</b> , 66, 479-483	4.6	54
62	Ion movement in polypyrrole/dodecylbenzenesulphonate films in aqueous and non-aqueous electrolytes. <i>Solid State Ionics</i> , <b>2002</b> , 154-155, 331-335	3.3	50
61	Determination of the differential capacity of intercalation electrode materials by slow potential scans. <i>Electrochimica Acta</i> , <b>1983</b> , 28, 97-107	6.7	48
60	Towards solid state lithium batteries based on ORMOCER electrolytes. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 1589-1592	6.7	45
59	Lithium insertion into silver vanadium oxide, Ag2V4O11. <i>Journal of Power Sources</i> , <b>1995</b> , 54, 334-337	8.9	43
58	The Composite Insertion Electrode: Theoretical Part. Equilibrium in the Insertion Compound and Linear Potential Dependence. <i>Journal of the Electrochemical Society</i> , <b>1984</b> , 131, 1200-1207	3.9	42
57	Direct Fast Patterning of Conductive Polymers Using Agarose Stamping. <i>Advanced Materials</i> , <b>2007</b> , 19, 3261-3265	24	37
56	Kinetics and thermodynamics of the lithium insertion reaction in spinel phase LixMn2O4. <i>Journal of Power Sources</i> , <b>1995</b> , 54, 475-478	8.9	36

55	A voltammetry study on the diffusion of counter ions in polypyrrole films. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 210-214	8.9	35
54	Poly(ethylene oxide)-sodium perchlorate electrolytes in solid-state sodium cells. <i>British Polymer Journal</i> , <b>1988</b> , 20, 243-246		35
53	Pentanol as co-surfactant in polypyrrole actuators. <i>Polymer</i> , <b>2002</b> , 43, 3527-3532	3.9	33
52	An equivalent circuit approach to the modelling of the dynamics of dye sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2005</b> , 87, 613-628	6.4	33
51	Lithium insertion in sputtered vanadium oxide film?. <i>Solid State Ionics</i> , <b>1992</b> , 57, 41-47	3.3	33
50	Thin-film vanadium oxide electrodes for lithium batteries. <i>Journal of Power Sources</i> , <b>1993</b> , 43, 127-134	8.9	33
49	A Rechargeable All-Solid-State Sodium Cell with Polymer Electrolyte. <i>Journal of the Electrochemical Society</i> , <b>1985</b> , 132, 3061-3062	3.9	33
48	Lithium insertion in isomorphous MO <sub>2</sub> (B) structures. <i>Solid State Ionics</i> , <b>1992</b> , 53-56, 364-369	3.3	30
47	Electrochemical synthesis of polypyrrole: Influence of current density on structure. <i>Synthetic Metals</i> , <b>1993</b> , 55, 1412-1417	3.6	28
46	Lithium insertion into VO <sub>2</sub> (B). <i>Materials Research Bulletin</i> , <b>1985</b> , 20, 485-492	5.1	28
45	Stuffed conducting polymers. <i>Polymer</i> , <b>2005</b> , 46, 4664-4669	3.9	27
44	Determination of ionic carriers in polypyrrole. <i>Solid State Ionics</i> , <b>2000</b> , 136-137, 577-582	3.3	27
43	The influence of polymerization rate on conductivity and crystallinity of electropolymerized polypyrrole. <i>Polymer</i> , <b>1996</b> , 37, 2609-2613	3.9	27
42	Dependence of force produced by polypyrrole-based artificial muscles on ionic species involved. <i>Solid State Ionics</i> , <b>2004</b> , 175, 725-728	3.3	25
41	Ion conductive electrolyte membranes based on co-continuous polymer blends. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 2168-2176		25
40	Hydrolysis and stability of thin pulsed plasma polymerised maleic anhydride coatings. <i>Applied Surface Science</i> , <b>2008</b> , 254, 4720-4725	6.7	22
39	New polymer lithium secondary batteries based on ORMOCER® electrolytes inorganic/organic polymers. <i>Electrochimica Acta</i> , <b>2001</b> , 46, 1499-1508	6.7	22
38	Lithium insertion in Li <sub>x</sub> V <sub>2</sub> O <sub>5</sub> at ambient temperature. <i>Solid State Ionics</i> , <b>1983</b> , 9-10, 399-404	3.3	22

- 37 Synthesis of Chiral Polyaniline Films via Chemical Vapor Phase Polymerization. *Electrochemical and Solid-State Letters*, **2006**, 9, C9 21
- 36 Integration of conducting polymer network in non-conductive polymer substrates. *Synthetic Metals*, **2006**, 156, 1203-1207 3.6 21
- 35 Discussion of Electrochemical Potential Spectroscopy: A New Electrochemical Measurement [A. H. Thompson (pp. 608-616, Vol. 126, No. 4)]. *Journal of the Electrochemical Society*, **1979**, 126, 2169-2170 3.9 21
- 34  $\text{Li}_{1-x}\text{Na}_x\text{V}_3\text{O}_8$  as positive materials for secondary lithium batteries. *Journal of Applied Electrochemistry*, **1997**, 27, 953-958 2.6 20
- 33 High current density and drift velocity in templated conducting polymers. *Organic Electronics*, **2007**, 8, 796-800 3.5 20
- 32 Enhanced ionic conductivity of poly(ethylene imine) phosphate. *Solid State Ionics*, **1996**, 85, 37-42 3.3 20
- 31 Lithium insertion in oxide spinels. *Solid State Ionics*, **1990**, 40-41, 580-584 3.3 20
- 30 Mixed phase solid electrolytes with nonconducting polymer binder. *Solid State Ionics*, **1990**, 40-41, 1021-1024 3.9 20
- 29 Application of polyacrylonitrile-based polymer electrolytes in rechargeable lithium batteries. *Journal of Solid State Electrochemistry*, **2008**, 12, 873-877 2.6 19
- 28 An all-polymer micropump based on the conductive polymer poly (3,4-ethylenedioxythiophene) and a polyurethane channel system. *Journal of Micromechanics and Microengineering*, **2007**, 17, 860-866 2 19
- 27 Layered potassium vanadium oxides as host materials for lithium and sodium insertion. *Solid State Ionics*, **1990**, 40-41, 585-588 3.3 17
- 26 Polypyrrole actuators working at 200Hz. *Synthetic Metals*, **2007**, 157, 323-326 3.6 16
- 25 Insertion of lithium into the manganese dioxides: pyrolusite and ramsdellite. *Solid State Ionics*, **1994**, 70-71, 401-406 3.3 16
- 24 Solid-state sodium cells [An alternative to lithium cells?]. *Journal of Power Sources*, **1989**, 26, 341-345 8.9 16
- 23 Electrostatic interactions during the intercalation of Li in  $\text{Li}_x\text{TiS}_2$ . *Electrochimica Acta*, **1982**, 27, 1007-1067 1.7 16
- 22 Interpenetrating networks of two conducting polymers. *Synthetic Metals*, **2005**, 148, 105-109 3.6 15
- 21 Electronic Conductivity of PolypyrroleDodecyl Benzene Sulfonate Complexes. *Journal of Physical Chemistry B*, **2004**, 108, 15001-15008 3.4 15
- 20 Electrochemical characterization of conducting polymers: polypyrrole. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1992**, 13, 229-233 3.1 15

19	Characterization of Plasma-Polymerized Fused Polycyclic Compounds for Binding Conducting Polymers. <i>Plasma Processes and Polymers</i> , <b>2005</b> , 2, 319-327	3.4	14
18	Synthesis and host properties of tetragonal Li <sub>2</sub> Mn <sub>2</sub> O <sub>4</sub> and Li <sub>2</sub> Co <sub>0.4</sub> Mn <sub>1.6</sub> O <sub>4</sub> . <i>Electrochimica Acta</i> , <b>2000</b> , 45, 3141-3149	6.7	14
17	Lithium insertion in Li <sub>x</sub> Mn <sub>2</sub> O <sub>4</sub> , <i>Solid State Ionics</i> , <b>1996</b> , 83, 151-157	3.3	14
16	Lithium intercalation into mixed vanadium-molybdenum oxides. <i>Solid State Ionics</i> , <b>1992</b> , 53-56, 356-363	3.3	14
15	An impedance study of the doping of polypyrrole in LiClO <sub>4</sub> /PC. <i>Solid State Ionics</i> , <b>1993</b> , 60, 153-159	3.3	13
14	In situ optical spectroscopy of electrochemical doping of polypyrrole. <i>Synthetic Metals</i> , <b>1992</b> , 51, 267-275	3.6	12
13	Sol-gel synthesis of the lithium-ion conducting perovskite La <sub>0.57</sub> Li <sub>0.3</sub> TiO <sub>3</sub> effect of synthesis and thermal treatments on the structure and conducting properties. <i>Ionics</i> , <b>1996</b> , 2, 442-445	2.7	11
12	The influence of preparation conditions on the electrical conductivity of poly-N-methylpyrrole films. <i>Solid State Ionics</i> , <b>1999</b> , 123, 287-292	3.3	10
11	Electrolyte and ion memory effects in highly conjugated polypyrrole. <i>Solid State Ionics</i> , <b>1994</b> , 72, 108-114	3.3	10
10	Discharge performance of composite insertion electrodes Analysis of discharges of 50 vol.% Li <sub>3</sub> N/TiS <sub>2</sub> electrodes. <i>Journal of Power Sources</i> , <b>1993</b> , 44, 733-741	8.9	10
9	The kinetics of porous insertion electrodes. <i>Journal of Power Sources</i> , <b>1989</b> , 26, 139-159	8.9	10
8	Lithium and sodium insertion in ternary chromium oxides. <i>Solid State Ionics</i> , <b>1988</b> , 28-30, 868-872	3.3	8
7	Discussion of Electrochemical Investigations of Alkali-Metal Intercalation Reactions in TiS <sub>2</sub> : Chronoamperometric Determination of Mass and Charge Transport Properties of Liquid Electrolyte Systems [Anthony Vaccaro, T. Palanisamy, R. L. Kerr, and J. T. Maloy (pp. 682-688, Vol. 129, No. 4)]. <i>Journal of the Electrochemical Society</i> , <b>1982</b> , 129, 2875-2877	3.9	7
6	Polypyrrole actuators for tremor suppression <b>2003</b> ,		6
5	Potential profile in a conducting polymer strip <b>2001</b> ,		5
4	Li insertion in Cu <sub>y</sub> TiS <sub>2</sub> spinels. <i>Electrochimica Acta</i> , <b>1989</b> , 34, 1473-1477	6.7	5
3	AC impedance studies on Li insertion in V <sub>6</sub> O <sub>13</sub> single crystals. <i>Electrochimica Acta</i> , <b>1985</b> , 30, 1205-1208	6.7	5
2	New junction materials by the direct growth of ZnO NWs on organic semiconductors. <i>RSC Advances</i> , <b>2015</b> , 5, 7932-7937	3.7	1

- 1 Polyaniline: Influence of Polymerization Current Density. *Materials Research Society Symposia Proceedings*, **1994**, 369, 565