

# Grigorii L Soloveichik

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrochemical ammonia synthesis through N <sub>2</sub> and H <sub>2</sub> O under ambient conditions: Theory, practices, and challenges for catalysts and electrolytes. <i>Nano Energy</i> , 2020, 69, 104469.	16.0	123
2	Multi-functional anodes boost the transient power and durability of proton exchange membrane fuel cells. <i>Nature Communications</i> , 2020, 11, 1191.	12.8	65
3	Electrochemical synthesis of ammonia as a potential alternative to the Haber-Bosch process. <i>Nature Catalysis</i> , 2019, 2, 377-380.	34.4	463
4	Understanding and Mitigating Capacity Fade in Aqueous Organic Redox Flow Batteries. <i>Journal of the Electrochemical Society</i> , 2018, 165, A1193-A1203.	2.9	60
5	Fuel Cells Operating at 200 to 500 Celsius: Lessons Learned from the ARPA-E REBELS Program. <i>ECS Transactions</i> , 2017, 78, 21-31.	0.5	0
6	Reversible catalytic dehydrogenation of alcohols for energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1687-1692.	7.1	118
7	Flow Batteries: Current Status and Trends. <i>Chemical Reviews</i> , 2015, 115, 11533-11558.	47.7	932
8	Electrochemical reactions of pincer rhodium(I) complexes. <i>Journal of Organometallic Chemistry</i> , 2014, 762, 94-97.	1.8	3
9	Regenerative Fuel Cells for Energy Storage. <i>Proceedings of the IEEE</i> , 2014, 102, 964-975.	21.3	40
10	Metal-free energy storage. <i>Nature</i> , 2014, 505, 163-164.	27.8	53
11	Liquid fuel cells. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1399-1418.	2.8	136
12	Base effects on electrochemical oxidation of indoline. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 3773-3777.	7.1	3
13	Fuel selection for a regenerative organic fuel cell/flow battery: thermodynamic considerations. <i>Energy and Environmental Science</i> , 2012, 5, 9534.	30.8	35
14	Reduction of Systematic Uncertainty in DFT Redox Potentials of Transition-Metal Complexes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6349-6356.	3.1	145
15	Tuning redox potentials of bis(imino)pyridine cobalt complexes: an experimental and theoretical study involving solvent and ligand effects. <i>Dalton Transactions</i> , 2012, 41, 3562.	3.3	41
16	Battery Technologies for Large-Scale Stationary Energy Storage. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2011, 2, 503-527.	6.8	355
17	Use of Electrochemical Methods for Evaluation of Components for Liquid Fuel Cells. <i>ECS Transactions</i> , 2011, 41, 1997-2002.	0.5	0
18	Aminosilicone Solvents for CO <sub>2</sub> Capture. <i>ChemSusChem</i> , 2010, 3, 919-930.	6.8	57

#	ARTICLE	IF	CITATIONS
19	Magnesium borohydride as a hydrogen storage material: Properties and dehydrogenation pathway of unsolvated Mg(BH <sub>4</sub> ) <sub>2</sub> . International Journal of Hydrogen Energy, 2009, 34, 916-928.	7.1	211
20	Magnesium borohydride as a hydrogen storage material: Synthesis of unsolvated Mg(BH <sub>4</sub> ) <sub>2</sub> . International Journal of Hydrogen Energy, 2009, 34, 2144-2152.	7.1	80
21	Effects of Organic Impurities on Chloralkali Membrane Electrolyzer Performance. Industrial & Engineering Chemistry Research, 2009, 48, 983-987.	3.7	5
22	NMR Confirmation for Formation of [B <sub>12</sub> H <sub>12</sub> ] <sup>2-</sup> Complexes during Hydrogen Desorption from Metal Borohydrides. Journal of Physical Chemistry C, 2008, 112, 3164-3169.	3.1	280
23	Ammine Magnesium Borohydride Complex as a New Material for Hydrogen Storage: Structure and Properties of Mg(BH <sub>4</sub> ) <sub>2</sub> ·2NH <sub>3</sub> . Inorganic Chemistry, 2008, 47, 4290-4298.	4.0	199
24	Magnesium Borohydride Complexed by Tetramethylethylenediamine. Inorganic Chemistry, 2007, 46, 3790-3791.	4.0	14
25	Structure of unsolvated magnesium borohydride Mg(BH <sub>4</sub> ) <sub>2</sub> . Acta Crystallographica Section B: Structural Science, 2007, 63, 561-568.	1.8	215
26	Combinatorial discovery of metal co-catalysts for the carbonylation of phenol. Applied Catalysis A: General, 2003, 254, 5-25.	4.3	34
27	Unprecedented Coordination of the AlH <sub>2</sub> <sup>+</sup> and Na <sup>+</sup> Cations in the Structure of the Organometallic Complex [AlH <sub>2</sub> (OC <sub>4</sub> H <sub>8</sub> ) <sub>4</sub> ][(.eta. <sup>-5</sup> -C <sub>5</sub> H <sub>5</sub> ) <sub>3</sub> Yb(.mu.-Na)Yb(.eta. <sup>-5</sup> -C <sub>5</sub> H <sub>5</sub> ) <sub>3</sub> ]. Organometallics, 1994, 13, 2075-2078.	2.3	18
28	Reaction of Methane with Nickel Hydride Complexes Yielding Methyl Derivatives. Mendeleev Communications, 1993, 3, 89.	1.6	5
29	Multiple structural variants of LnCuI(.mu.-X) <sub>2</sub> CuLn (n = 1, 2). Influence of halide on a "soft" potential energy surface. Inorganic Chemistry, 1992, 31, 3306-3312.	4.0	49
30	Unsolvated lanthanidocene hydrides and borohydrides. X-Ray crystal structure of [( <sup>-5</sup> -C <sub>5</sub> H <sub>3</sub> tBu <sub>2</sub> ) <sub>2</sub> Ln( <sup>1/4</sup> -H)] <sub>2</sub> (Ln = Ce, Sm). Journal of Organometallic Chemistry, 1992, 424, 289-300.	1.8	60
31	Kinetically stable adduct of samarocene with aluminium deuteride (( <sup>-5</sup> -C <sub>5</sub> H <sub>3</sub> tBu <sub>2</sub> ) <sub>2</sub> Sm( <sup>1/2</sup> -D) <sub>2</sub> AlD·Me <sub>2</sub> NC <sub>2</sub> H <sub>4</sub> NMe <sub>2</sub> ). Journal of Organometallic Chemistry, 1992, 440, 47-52.	1.8	8
32	A change of the bonding mode of the alumohydride group in byscyclopentadienylhydrido REM complexes: from heterometallic to homometallic hydrides. Crystal and molecular structures of [( <sup>-5</sup> -C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> Yb( <sup>1/4</sup> -H)AlH <sub>2</sub> ·N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ] <sub>2</sub> ·C <sub>6</sub> H <sub>6</sub> , [( <sup>-5</sup> -C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> Lu( <sup>1/4</sup> -H) <sub>2</sub> AlH·N(C <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> ] <sub>2</sub> ·C <sub>6</sub> H <sub>6</sub> and [( <sup>-5</sup> -C <sub>5</sub> H <sub>5</sub> ) <sub>2</sub> Lu] <sub>3</sub> ( <sup>1/4</sup> -H) <sub>2</sub> ( <sup>1/4</sup> -H). Journal of Organometallic Chemistry, 1991, 414, 11-22.	1.8	21
33	Structural chemistry of titanium and aluminium bimetallic hydride complexes. Journal of Organometallic Chemistry, 1985, 280, 53-66.	1.8	32
34	Alumohydride complex of yttrium with three-coordinated hydrogen atoms. The crystal and molecular 107-111.	1.8	38
35	Structural chemistry of titanium and aluminium bimetallic hydride complexes. Journal of Organometallic Chemistry, 1984, 270, 45-51.	1.8	23
36	Bimetallic Transition Metal Hydride Complexes. Russian Chemical Reviews, 1983, 52, 43-60.	6.5	36

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37	Monometal Hydrido-complexes of Transition Metals. Russian Chemical Reviews, 1982, 51, 286-302.	6.5	6
38	Interactions in Cp <sub>2</sub> TiX-AlH <sub>3</sub> ?nXn-Et <sub>2</sub> O(NEt <sub>3</sub> ) systems. Transition Metal Chemistry, 1981, 6, 32-36.	1.4	19
39	Infra red spectra and structures of bimetallic Cp <sub>2</sub> TiH <sub>2</sub> AlX(X?) $\eta^5$ L complexes. Transition Metal Chemistry, 1981, 6, 240-246.	1.4	9