

# Leonid M Goldenberg

## List of Publications by Citations

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121  
ext. papers

3,339  
ext. citations

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#	Paper	IF	Citations
116	Large-scale synthesis of organophilic zirconia nanoparticles and their application in organic-inorganic nanocomposites for efficient volume holography. <i>Small</i> , <b>2007</b> , 3, 1626-32	11	159
115	Supramolecular Azobenzene-Based Materials for Optical Generation of Microstructures. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3343-3348	9.6	122
114	Chemosensor devices: voltammetric molecular recognition at solid interfaces. <i>Journal of Materials Chemistry</i> , <b>1999</b> , 9, 1957-1974		118
113	Ordered Arrays of Large Latex Particles Organized by Vertical Deposition. <i>Langmuir</i> , <b>2002</b> , 18, 3319-3323		102
112	Synthesis of Luminescent ZrO <sub>2</sub> :Eu <sup>3+</sup> Nanoparticles and Their Holographic Sub-Micrometer Patterning in Polymer Composites. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 1819-1825	15.6	100
111	A Redox-Active Tetrathiafulvalene [2]Pseudorotaxane: Spectroelectrochemical and Cyclic Voltammetric Studies of the Highly-Reversible Complexation/Decomplexation Process. <i>Journal of Organic Chemistry</i> , <b>1997</b> , 62, 885-887	4.2	92
110	Investigation of poly(p-phenylene) obtained by electrochemical oxidation of benzene in a BuPyCl <sub>2</sub> AlCl <sub>3</sub> melt. <i>Synthetic Metals</i> , <b>1990</b> , 36, 217-228	3.6	89
109	Surface modified ZrO <sub>2</sub> and TiO <sub>2</sub> nanoparticles embedded in organic photopolymers for highly effective and UV-stable volume holograms. <i>Nanotechnology</i> , <b>2007</b> , 18, 105704	3.4	87
108	A biosensor for monitoring formaldehyde using a new lipophilic tetrathiafulvalene-tetracyanoquinodimethane salt and a polyurethane membrane. <i>Talanta</i> , <b>2002</b> , 56, 451-8	6.2	77
107	A Comparative Study of the Electrochemical Properties of Dip-Coated, Spun, and Langmuir-Blodgett Films of Polyaniline. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 1573-1576	3.9	69
106	Cation Recognition by Self-Assembled Layers of Novel Crown-Annulated Tetrathiafulvalenes. <i>Advanced Materials</i> , <b>1998</b> , 10, 395-398	24	66
105	Macromolecular tetrathiafulvalene chemistry. <i>Chemical Communications</i> , <b>1998</b> , 945-952	5.8	66
104	Smart Ionic Sol-Gel-Based Azobenzene Materials for Optical Generation of Microstructures. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 3528-3534	9.6	62
103	Anodic synthesis of poly(p-phenylene). <i>Synthetic Metals</i> , <b>1993</b> , 58, 271-293	3.6	62
102	Synthesis, Characterization, and Processing of New Electroactive and Photoactive Polyesters Derived from Oligothiophenes. <i>Chemistry of Materials</i> , <b>1997</b> , 9, 2815-2821	9.6	59
101	Holographic Composites with Gold Nanoparticles: Nanoparticles Promote Polymer Segregation. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4619-4627	9.6	55
100	New crown annulated tetrathiafulvalenes: synthesis, electrochemistry, self-assembly of thiol derivatives, and metal cation recognition. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 8269-76	4.2	49

99	Electrochemical properties of Langmuir-Blodgett films. <i>Journal of Electroanalytical Chemistry</i> , <b>1994</b> , 379, 3-19	4.1	47
98	Single step optical fabrication of a DFB laser device in fluorescent azobenzene-containing materials. <i>Advanced Materials</i> , <b>2012</b> , 24, 3339-43	24	45
97	Synthesis and electrochemistry of a tetrathiafulvalene (TTF) glycol dendrimer: intradendrimer aggregation of TTF cation radicals. <i>Chemical Communications</i> , <b>1998</b> , 509-510	5.8	45
96	Electron Acceptors of the Fluorene Series. 9.1 Derivatives of 9-(1,2-Dithiol-3-ylidene)-, 9-(1,3-Dithiol-2-ylidene)-, and 9-(1,3-Selenathiol-2-ylidene)fluorenes: Synthesis, Intramolecular Charge Transfer, and Redox Properties. <i>Journal of Organic Chemistry</i> , <b>1999</b> , 64, 6937-6950	4.2	44
95	Electron Acceptors of the Fluorene Series. 7.1 2,7-Dicyano-4,5-dinitro-9-X-fluorenes: Synthesis, Cyclic Voltammetry, Charge Transfer Complexation with N-Propylcarbazole in Solution, and X-ray Crystal Structures of Two Tetrathiafulvalene Complexes. <i>Journal of Organic Chemistry</i> , <b>1998</b> , 63, 6484-6493	4.2	43
94	1,4-Dithiafulvene-substituted ferrocenes and their conversion into extended tetrathiafulvalene electron donors: synthetic, electrochemical and X-ray structural studies. <i>Journal of the Chemical Society Perkin Transactions 1</i> , <b>1997</b> , 3443-3450		42
93	New materials with detachable azobenzene: effective, colourless and extremely stable surface relief gratings. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 8068		41
92	Selective electrochemical magnesium and calcium sensors based on non-macrocyclic nitrogen-containing ferrocene ligands. <i>Chemical Communications</i> , <b>1998</b> , 677-678	5.8	41
91	Holographic patterning of luminescent photopolymer nanocomposites. <i>Materials Science and Engineering C</i> , <b>2008</b> , 28, 28-35	8.3	40
90	Simple Method for the Preparation of Colloidal Particle Monolayers at the Water/Alkane Interface. <i>Langmuir</i> , <b>2002</b> , 18, 5627-5629	4	39
89	Amplified spontaneous emission in polymer-CdSe/ZnS-nanocrystal DFB structures produced by the holographic method. <i>Nanotechnology</i> , <b>2009</b> , 20, 245707	3.4	38
88	Effective volume holographic structures based on organic-inorganic photopolymer nanocomposites. <i>Journal of Optics</i> , <b>2009</b> , 11, 024013		38
87	Thin layers of low molecular azobenzene materials with effective light-induced mass transport. <i>Langmuir</i> , <b>2010</b> , 26, 2214-7	4	37
86	Thermally stable holographic surface relief gratings and switchable optical anisotropy in films of an azobenzene-containing polyelectrolyte. <i>Langmuir</i> , <b>2005</b> , 21, 4794-6	4	35
85	Synthesis and intramolecular charge-transfer properties of new tetrathiafulvalene-tetracyanoanthraquinodimethane diad (TTF-TCNAQ) and triad (TTF-TCNAQ-TTF) molecules. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 71-76		34
84	Benzene polymerization in 1-ethyl-3-methylimidazolium chloride-AlCl <sub>3</sub> ionic liquid. <i>Synthetic Metals</i> , <b>1994</b> , 64, 63-68	3.6	33
83	Reversible structuring of photosensitive polymer films by surface plasmon near field radiation. <i>Soft Matter</i> , <b>2011</b> , 7, 4174	3.6	32
82	3D structures using surface relief gratings of azobenzene materials. <i>Journal of Optics</i> , <b>2008</b> , 10, 125304		32

81	Synthesis and electrochemistry of new tetrathiafulvalene (TTF)dendrimers:X-ray crystal structure of a tetrafunctionalised TTF coreunit. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 1189-1197		31
80	Structuring of photosensitive material below diffraction limit using far field irradiation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 113, 263-272	2.6	29
79	Aryl ester dendrimers incorporating tetrathiafulvalene units: convergent synthesis, electrochemistry and charge-transfer properties. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 1361-1372		29
78	Three-dimensional planarized diffraction structures based on surface relief gratings in azobenzene materials. <i>Optics Letters</i> , <b>2008</b> , 33, 1309-11	3	29
77	Electro- and Photochemistry of 13-Membered Azocrowns in Solution and as Langmuir-Blodgett Films. <i>Langmuir</i> , <b>1998</b> , 14, 1236-1241	4	29
76	Second order DFB lasing using reusable grating inscribed in azobenzene-containing material. <i>Optical Materials Express</i> , <b>2012</b> , 2, 11	2.6	28
75	Low potential anodic polymerization of benzene in strong acid and superacid solutions. <i>Journal of Electroanalytical Chemistry</i> , <b>1992</b> , 335, 151-161	4.1	28
74	Very efficient surface relief holographic materials based on azobenzene-containing epoxy resins cured in films. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 9161		27
73	Semiconducting Langmuir-Blodgett films of ethylenedithio-tetrathiafulvalene (EDT-TTF) derivatives bearing charged and uncharged aromatic substituents. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 901-907		27
72	Semiconducting Langmuir-Blodgett films of non-amphiphilic ethylenedithio-tetrathiafulvalene derivatives bearing pyridine and pyridinium substituents. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1995</b> , 475-476		27
71	Extremely high patterning efficiency in easily made azobenzene-containing polymer films. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 6103		25
70	Highly Conducting Langmuir-Blodgett films of an amphiphilic Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) derivative: BEDT-TTF-C18H37. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 1426-1431	9.6	25
69	Crown-annulated tetrathiafulvalenes: synthesis of new functionalised derivatives and spectroscopic and electrochemical studies of metal complexation. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1996</b> , 1587-1593		24
68	Efficient single-beam light manipulation of 3D microstructures in azobenzene-containing materials. <i>Optics Express</i> , <b>2011</b> , 19, 18687-95	3.3	23
67	Phenomenology of photoinduced processes in the ionic sol-gel-based azobenzene materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2009</b> , 1, 1739-46	9.5	23
66	Hydrogen bond complexation of dimethyl-[1-butyl-2,4-dioxo(1H,3H)pyrimido]tetrathiafulvalene with aminopyridine derivatives probed by cyclic voltammetry. <i>Journal of Electroanalytical Chemistry</i> , <b>1999</b> , 463, 212-217	4.1	23
65	Electron acceptors of the fluorene series. Part 5. Intramolecular charge transfer in nitro-substituted 9-(aminomethylene)fluorenes. <i>Journal of the Chemical Society Perkin Transactions II</i> , <b>1996</b> , 2453		23
64	Fast and simple fabrication of organic Bragg mirrors—application to plastic microchip lasers. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 055808	1.5	22

63	Ordered arrays of large latex particles organised by vertical deposition. <i>Materials Science and Engineering C</i> , <b>2002</b> , 22, 405-408	8.3	22
62	Stoichiometry of Latent Acidity in Buffered Chloroaluminate Ionic Liquids. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 3558-3561	7.8	22
61	A tetrathiafulvalene derivative with an acyclic S4 domain as a voltammetric silver sensor. <i>Perkin Transactions II RSC</i> , <b>2000</b> , 189-190		20
60	Electrochemical studies on LangmuirBlodgett films of 1-tert-butyl-1,9-dihydrofullerene-60. <i>Journal of the Chemical Society Chemical Communications</i> , <b>1993</b> , 1310-1312		19
59	The Schottky device based on doped poly(p-phenylene). <i>Synthetic Metals</i> , <b>1991</b> , 44, 199-203	3.6	19
58	Electropolymerization of benzene in a two-phase benzene/acid system: Comparative study in strong proton acid and superacid media. <i>Journal of Electroanalytical Chemistry</i> , <b>1992</b> , 327, 173-184	4.1	18
57	Fluorene acceptors with intramolecular charge-transfer from 1,3-dithiole donor moieties: novel electron transport materials. <i>Chemical Communications</i> , <b>1998</b> , 819-820	5.8	17
56	Optical properties of ordered arrays of large latex particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2003</b> , 17, 433-435	3	16
55	Application of Norland adhesive for holographic recording. <i>Optical Materials</i> , <b>2005</b> , 27, 1379-1385	3.3	15
54	Preparation and characterisation of conductive LangmuirBlodgett films of amphiphilic pyridiniumBi(dmit) <sub>2</sub> salts. <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 1601-1608		14
53	Liquid Crystalline Azobenzene-Containing Polymer as a Matrix for Distributed Feedback Lasers. <i>ACS Photonics</i> , <b>2014</b> , 1, 885-893	6.3	13
52	First observation of DFB lasing in polarization gratings written in azobenzene film. <i>Laser Physics Letters</i> , <b>2013</b> , 10, 085804	1.5	13
51	Azobenzene Lasers Tuned Over a 200 nm Range. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 527-533	8.1	13
50	Efficient surface relief grating generated in azobenzene-containing material using an HeNe laser. <i>Journal of Optics (United Kingdom)</i> , <b>2011</b> , 13, 075601	1.7	13
49	Conducting LangmuirBlodgett films of an amphiphilic unsymmetrical ethylenedithiotetrathiafulvalene derivative: EDTTFCH <sub>2</sub> OC(O)C <sub>17</sub> H <sub>35</sub> . <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 1593-1599		13
48	Electrochemical molecular recognition by thin films of ether-substituted polythiophenes. <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 447, 1-3	4.1	12
47	Generation of microstructures in novel supramolecular ionic materials based on azobenzene <b>2008</b> ,		12
46	Schottky diodes based on poly(p-phenylene) and poly(1,4-dipyrrolobenzene). <i>Synthetic Metals</i> , <b>1993</b> , 53, 399-402	3.6	12

45	Study of doped polypyrrole by the spin probe method at 3 cm and 2 mm waveband EPR. <i>Synthetic Metals</i> , <b>1991</b> , 44, 205-211	3.6	12
44	Influence of the cation type on the DFB lasing performance of dye-doped azobenzene-containing polyelectrolytes. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 8546-8553	7.1	11
43	All-optical fabrication of 2D and 3D photonic structures using a single polymer phase mask. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 015103	1.7	11
42	Use of electrochemical techniques to study the Langmuir-Blodgett films of redox active materials. <i>Russian Chemical Reviews</i> , <b>1997</b> , 66, 1033-1052	6.8	11
41	Preparation of Ordered Arrays of Layer-by-Layer Modified Latex Particles. <i>Langmuir</i> , <b>2003</b> , 19, 205-207	4	11
40	Preparation and characterisation of conductive Langmuir-Blodgett films of a tetrabutylammonium Ni(dmit) <sub>2</sub> complex. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 699-704		11
39	Electrochemical properties of hexadecanoyltetrathiafulvalene Langmuir-Blodgett films. <i>Thin Solid Films</i> , <b>1994</b> , 238, 280-284	2.2	11
38	Investigation of poly-(p-phenylene) obtained in electrochemical oxidation of benzene in the BuPyCl <sub>4</sub> /AlCl <sub>3</sub> melt and in organic solvents with oleum. <i>Synthetic Metals</i> , <b>1991</b> , 43, 3071-3074	3.6	11
37	Observation of a memory effect in the case of poly(p-phenylene), synthesized by electrochemical oxidation of benzene in a superacid medium. <i>Synthetic Metals</i> , <b>1993</b> , 55, 1365-1370	3.6	10
36	Controlled synthesis of organic superconductors and conductors of the (BEDT-TTF) <sub>4</sub> Hg <sub>3</sub> X <sub>8</sub> composition (X = Cl, Br, I). <i>Synthetic Metals</i> , <b>1991</b> , 42, 2143-2146	3.6	10
35	Diffraction properties of ordered arrays of large latex particles. <i>Materials Science and Engineering C</i> , <b>2002</b> , 22, 233-237	8.3	9
34	Experimental and theoretical studies into the structural perturbations between neutral, oxidised and reduced forms of 1,4-dithiinoquinoxaline derivatives. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2448-2457		9
33	A study of benzene electropolymerization in the Bu <sub>4</sub> NBF <sub>4</sub> -oleum-CH <sub>2</sub> Cl <sub>2</sub> system. <i>Synthetic Metals</i> , <b>1991</b> , 44, 133-142	3.6	9
32	All-polymer spin-coated organic vertical-cavity surface-emitting laser with high conversion efficiency. <i>Applied Physics B: Lasers and Optics</i> , <b>2015</b> , 120, 271-277	1.9	8
31	Stable Lasing in Azobenzene Polyelectrolyte with Polarization Gratings as Distributed Feedback. <i>Advanced Optical Materials</i> , <b>2013</b> , 1, 768-775	8.1	8
30	Stable and Efficient Thin Layer DFB Lasers Based on Side-Chain Azobenzene Polymers. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 286-291	8.1	7
29	Langmuir-Blodgett films of a tetrathiafulvalene derivative substituted with an azobenzene group. <i>Journal of Materials Chemistry</i> , <b>1997</b> , 7, 2033-2037		7
28	Electrochemical molecular recognition of silver cation by electropolymerised thieno[3,4?;5,6][1,4]dithiino[2,3-b]quinoxaline: a joint experimental and theoretical study. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 2458-2465		7

27	Water-sensitive sensor based on modified poly(vinyl chloride). <i>Synthetic Metals</i> , <b>1993</b> , 53, 403-407	3.6	7
26	Oleum as an electrolyte of anodic polymerization of benzene. <i>Synthetic Metals</i> , <b>1991</b> , 44, 107-110	3.6	7
25	All-optical fabrication of 2D and 3D photonic microstructures in polymeric materials <b>2010</b> ,		6
24	Processing-induced chromism in thin films of polythiophene derivatives. <i>Macromolecular Rapid Communications</i> , <b>1997</b> , 18, 733-737	4.8	6
23	Electrochemical recognition properties of 13- and 16-membered azo- and azoxycrowns in solution. <i>Journal of Electroanalytical Chemistry</i> , <b>2001</b> , 509, 42-47	4.1	6
22	Phase holographic material with diffusion enhancement based on 1,2-naphthoquinone. <i>Journal of Optics (United Kingdom)</i> , <b>2010</b> , 12, 015107	1.7	5
21	The electrical behaviour of multilayer polypyrrole films. <i>Journal Physics D: Applied Physics</i> , <b>1998</b> , 31, 1504-1510	5	5
20	Semi-conducting Langmuir-Blodgett films of a novel amphiphilic bis(tetrathiafulvalene) derivative. <i>Journal of Materials Chemistry</i> , <b>1995</b> , 5, 191-192		5
19	Electrochemical synthesis of composite poly(p-phenylene) materials. <i>Synthetic Metals</i> , <b>1992</b> , 51, 339-342	3.6	5
18	Low potential anodic polymerization of benzene in methanesulfonic and trifluoromethanesulfonic acid solutions. <i>Synthetic Metals</i> , <b>1992</b> , 51, 349-353	3.6	5
17	Dye-doped PQ-PMMA phase holographic materials for DFB lasing. <i>Journal of Optics (United Kingdom)</i> , <b>2014</b> , 16, 035101	1.7	4
16	Holographic patterning of organic-inorganic photopolymerizable nanocomposites <b>2009</b> ,		4
15	Photo-Induced Phenomena in Supramolecular Azobenzene Materials	47-94	4
14	An electrical impedance study of Langmuir - Blodgett films containing a tetrabutylammonium Ni(dmit) complex. <i>Journal Physics D: Applied Physics</i> , <b>1997</b> , 30, 2928-2931	3	4
13	Low potential benzene electropolymerization with triflic acid: Electropolymerization in dichloromethane on Pt and Fe electrodes. <i>Synthetic Metals</i> , <b>1993</b> , 55, 1360-1364	3.6	4
12	Electropolymerization of benzene in a two-phase strong proton acid-benzene system. <i>Synthetic Metals</i> , <b>1992</b> , 51, 343-348	3.6	4
11	ESR Studies of Single Crystals of Bis(ethylenedithio)tetrathiafulvalene-Based Conductor with Octaiodinemercurate Anion (BEDT-TTF) <sub>4</sub> Hg <sub>3</sub> I <sub>8</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>1989</b> , 154, 333-339	1.3	4
10	E.S.R. and electrical properties of the organic metal (BEDT-TTF) <sub>4</sub> Hg <sub>3</sub> Cl <sub>8</sub> . <i>Synthetic Metals</i> , <b>1988</b> , 24, 161-166	3.66	4

9	Continuously tunable laser based on polarization gratings in azobenzene-containing material. <i>Laser Physics</i> , <b>2014</b> , 24, 035807	1.2	3
8	Electrochemical properties of Langmuir-Blodgett films of polyesters derived from oligothiophenes. <i>Journal of Electroanalytical Chemistry</i> , <b>1998</b> , 443, 266-272	4.1	3
7	Application of electrochemical techniques to the study of Langmuir-Blodgett films of N-octadecylpyridinium-Ni(dmit) <sub>2</sub> . <i>Thin Solid Films</i> , <b>1996</b> , 284-285, 512-515	2.2	3
6	Structural and electrical studies on nickel(dmit) <sub>2</sub> complexes. <i>Synthetic Metals</i> , <b>1997</b> , 86, 1839-1840	3.6	2
5	Spectroscopic Study of Azo- and Azoxycrowns Binding with Cations of Similar Ionic Radius. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2000</b> , 38, 171-186		2
4	Impact of inorganic nanoparticles on optical properties of low refractive index waveguiding polymers. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2987	2.6	2
3	Diffractive-Optical Elements via All-Optical Patterning of Photopolymers and Nanocomposites. <i>Journal of Photopolymer Science and Technology = [Fotopolyma Konwakai Shi]</i> , <b>2010</b> , 23, 757-764	0.7	1
2	Electrochemical synthesis of polymers from 1,4-dipyrrolobenzene. <i>Synthetic Metals</i> , <b>1991</b> , 40, 393-396	3.6	1
1	Optical nanocomposites containing low refractive index MgF <sub>2</sub> nanoparticles. <i>EPJ Applied Physics</i> , <b>2021</b> , 94, 10403	1.1	0