

Leonid M Goldenberg

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

116
papers

3,174
citations

33
h-index

50
g-index

121
ext. papers

3,339
ext. citations

5
avg, IF

4.75
L-index

#	Paper	IF	Citations
116	Optical nanocomposites containing low refractive index MgF ₂ nanoparticles. <i>EPJ Applied Physics</i> , 2021 , 94, 10403	1.1	0
115	Impact of inorganic nanoparticles on optical properties of low refractive index waveguiding polymers. <i>Optical Materials Express</i> , 2020 , 10, 2987	2.6	2
114	All-polymer spin-coated organic vertical-cavity surface-emitting laser with high conversion efficiency. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 120, 271-277	1.9	8
113	Stable and Efficient Thin Layer DFB Lasers Based on Side-Chain Azobenzene Polymers. <i>Advanced Optical Materials</i> , 2014 , 2, 286-291	8.1	7
112	Dye-doped PQ-PMMA phase holographic materials for DFB lasing. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 035101	1.7	4
111	Influence of the cation type on the DFB lasing performance of dye-doped azobenzene-containing polyelectrolytes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8546-8553	7.1	11
110	Liquid Crystalline Azobenzene-Containing Polymer as a Matrix for Distributed Feedback Lasers. <i>ACS Photonics</i> , 2014 , 1, 885-893	6.3	13
109	Continuously tunable laser based on polarization gratings in azobenzene-containing material. <i>Laser Physics</i> , 2014 , 24, 035807	1.2	3
108	Stable Lasing in Azobenzene Polyelectrolyte with Polarization Gratings as Distributed Feedback. <i>Advanced Optical Materials</i> , 2013 , 1, 768-775	8.1	8
107	Structuring of photosensitive material below diffraction limit using far field irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 263-272	2.6	29
106	First observation of DFB lasing in polarization gratings written in azobenzene film. <i>Laser Physics Letters</i> , 2013 , 10, 085804	1.5	13
105	Fast and simple fabrication of organic Bragg mirrors—application to plastic microchip lasers. <i>Laser Physics Letters</i> , 2013 , 10, 055808	1.5	22
104	Azobenzene Lasers Tuned Over a 200 nm Range. <i>Advanced Optical Materials</i> , 2013 , 1, 527-533	8.1	13
103	Single step optical fabrication of a DFB laser device in fluorescent azobenzene-containing materials. <i>Advanced Materials</i> , 2012 , 24, 3339-43	24	45
102	Second order DFB lasing using reusable grating inscribed in azobenzene-containing material. <i>Optical Materials Express</i> , 2012 , 2, 11	2.6	28
101	Efficient single-beam light manipulation of 3D microstructures in azobenzene-containing materials. <i>Optics Express</i> , 2011 , 19, 18687-95	3.3	23
100	Reversible structuring of photosensitive polymer films by surface plasmon near field radiation. <i>Soft Matter</i> , 2011 , 7, 4174	3.6	32

99	Efficient surface relief grating generated in azobenzene-containing material using a HeNe laser. <i>Journal of Optics (United Kingdom)</i> , 2011 , 13, 075601	1.7	13
98	Phase holographic material with diffusion enhancement based on 1,2-naphthoquinone. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 015107	1.7	5
97	All-optical fabrication of 2D and 3D photonic structures using a single polymer phase mask. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 015103	1.7	11
96	Very efficient surface relief holographic materials based on azobenzene-containing epoxy resins cured in films. <i>Journal of Materials Chemistry</i> , 2010 , 20, 9161		27
95	All-optical fabrication of 2D and 3D photonic microstructures in polymeric materials 2010 ,		6
94	Diffractive-Optical Elements via All-Optical Patterning of Photopolymers and Nanocomposites. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2010 , 23, 757-764	0.7	1
93	Thin layers of low molecular azobenzene materials with effective light-induced mass transport. <i>Langmuir</i> , 2010 , 26, 2214-7	4	37
92	Synthesis of Luminescent ZrO ₂ :Eu ³⁺ Nanoparticles and Their Holographic Sub-Micrometer Patterning in Polymer Composites. <i>Advanced Functional Materials</i> , 2009 , 19, 1819-1825	15.6	100
91	Amplified spontaneous emission in polymer-CdSe/ZnS-nanocrystal DFB structures produced by the holographic method. <i>Nanotechnology</i> , 2009 , 20, 245707	3.4	38
90	Phenomenology of photoinduced processes in the ionic sol-gel-based azobenzene materials. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1739-46	9.5	23
89	Effective volume holographic structures based on organic/inorganic photopolymer nanocomposites. <i>Journal of Optics</i> , 2009 , 11, 024013		38
88	Holographic patterning of organic-inorganic photopolymerizable nanocomposites 2009 ,		4
87	Extremely high patterning efficiency in easily made azobenzene-containing polymer films. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6103		25
86	New materials with detachable azobenzene: effective, colourless and extremely stable surface relief gratings. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8068		41
85	Holographic Composites with Gold Nanoparticles: Nanoparticles Promote Polymer Segregation. <i>Chemistry of Materials</i> , 2008 , 20, 4619-4627	9.6	55
84	Three-dimensional planarized diffraction structures based on surface relief gratings in azobenzene materials. <i>Optics Letters</i> , 2008 , 33, 1309-11	3	29
83	Smart Ionic Sol-Gel-Based Azobenzene Materials for Optical Generation of Microstructures. <i>Chemistry of Materials</i> , 2008 , 20, 3528-3534	9.6	62
82	3D structures using surface relief gratings of azobenzene materials. <i>Journal of Optics</i> , 2008 , 10, 125304		32

81	Generation of microstructures in novel supramolecular ionic materials based on azobenzene 2008 ,		12
80	Holographic patterning of luminescent photopolymer nanocomposites. <i>Materials Science and Engineering C</i> , 2008 , 28, 28-35	8.3	40
79	Large-scale synthesis of organophilic zirconia nanoparticles and their application in organic-inorganic nanocomposites for efficient volume holography. <i>Small</i> , 2007 , 3, 1626-32	11	159
78	Surface modified ZrO ₂ and TiO ₂ nanoparticles embedded in organic photopolymers for highly effective and UV-stable volume holograms. <i>Nanotechnology</i> , 2007 , 18, 105704	3.4	87
77	Supramolecular Azobenzene-Based Materials for Optical Generation of Microstructures. <i>Chemistry of Materials</i> , 2007 , 19, 3343-3348	9.6	122
76	Thermally stable holographic surface relief gratings and switchable optical anisotropy in films of an azobenzene-containing polyelectrolyte. <i>Langmuir</i> , 2005 , 21, 4794-6	4	35
75	Application of Norland adhesive for holographic recording. <i>Optical Materials</i> , 2005 , 27, 1379-1385	3.3	15
74	Optical properties of ordered arrays of large latex particles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 17, 433-435	3	16
73	Preparation of Ordered Arrays of Layer-by-Layer Modified Latex Particles. <i>Langmuir</i> , 2003 , 19, 205-207	4	11
72	Diffraction properties of ordered arrays of large latex particles. <i>Materials Science and Engineering C</i> , 2002 , 22, 233-237	8.3	9
71	Ordered arrays of large latex particles organised by vertical deposition. <i>Materials Science and Engineering C</i> , 2002 , 22, 405-408	8.3	22
70	Simple Method for the Preparation of Colloidal Particle Monolayers at the Water/Alkane Interface. <i>Langmuir</i> , 2002 , 18, 5627-5629	4	39
69	Ordered Arrays of Large Latex Particles Organized by Vertical Deposition. <i>Langmuir</i> , 2002 , 18, 3319-3323	4	102
68	A biosensor for monitoring formaldehyde using a new lipophilic tetrathiafulvalene-tetracyanoquinodimethane salt and a polyurethane membrane. <i>Talanta</i> , 2002 , 56, 451-8	6.2	77
67	Electrochemical recognition properties of 13- and 16-membered azo- and azoxycrowns in solution. <i>Journal of Electroanalytical Chemistry</i> , 2001 , 509, 42-47	4.1	6
66	Spectroscopic Study of Azo- and Azoxycrowns Binding with Cations of Similar Ionic Radius. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2000 , 38, 171-186		2
65	New crown annelated tetrathiafulvalenes: synthesis, electrochemistry, self-assembly of thiol derivatives, and metal cation recognition. <i>Journal of Organic Chemistry</i> , 2000 , 65, 8269-76	4.2	49
64	Electrochemical molecular recognition of silvercation 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> , 2000 , 10, 2458-2465		7

63	A tetrathiafulvalene derivative with an acyclic S4 domain as a voltammetric silver sensor. <i>Perkin Transactions II RSC</i> , 2000 , 189-190		20
62	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> , 2000 , 10, 2448-2457		9
61	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> , 1999 , 463, 212-217	4.1	23
60	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> , 1999 , 64, 6937-6950	4.2	44
59	Chemosensor devices: voltammetric molecular recognition at solid interfaces. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1957-1974		118
58	Cation Recognition by Self-Assembled Layers of Novel Crown-Annulated Tetrathiafulvalenes. <i>Advanced Materials</i> , 1998 , 10, 395-398	24	66
57	Electrochemical properties of Langmuir-Blodgett films of polyesters derived from oligothiophenes. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 443, 266-272	4.1	3
56	Electrochemical molecular recognition by thin films of ether-substituted polythiophenes. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 447, 1-3	4.1	12
55	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> , 1998 , 8, 71-76		34
54	Aryl ester dendrimers incorporating tetrathiafulvalene units: convergent synthesis, electrochemistry and charge-transfer properties. <i>Journal of Materials Chemistry</i> , 1998 , 8, 1361-1372		29
53	Selective electrochemical magnesium and calcium sensors based on non-macrocyclic nitrogen-containing ferrocene ligands. <i>Chemical Communications</i> , 1998 , 677-678	5.8	41
52	Synthesis and electrochemistry of a tetrathiafulvalene (TTF) glycol dendrimer: intradendrimer aggregation of TTF cation radicals. <i>Chemical Communications</i> , 1998 , 509-510	5.8	45
51	Fluorene acceptors with intramolecular charge-transfer from 1,3-dithiole donor moieties: novel electron transport materials. <i>Chemical Communications</i> , 1998 , 819-820	5.8	17
50	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> , 1998 , 63, 6484-6493	4.2	43
49	Electro- and Photochemistry of 13-Membered Azocrowns in Solution and as Langmuir-Blodgett Films. <i>Langmuir</i> , 1998 , 14, 1236-1241	4	29
48	Macromolecular tetrathiafulvalene chemistry. <i>Chemical Communications</i> , 1998 , 945-952	5.8	66
47	The electrical behaviour of multilayer polypyrrole films. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 1504-1510		5
46	An electrical impedance study of Langmuir-Blodgett films containing a tetrabutylammonium Ni(dmit) complex. <i>Journal Physics D: Applied Physics</i> , 1997 , 30, 2928-2931	3	4

45	Use of electrochemical techniques to study the Langmuir-Blodgett films of redox active materials. <i>Russian Chemical Reviews</i> , 1997 , 66, 1033-1052	6.8	11
44	Langmuir-Blodgett films of a tetrathiafulvalene derivative substituted with an azobenzene group. <i>Journal of Materials Chemistry</i> , 1997 , 7, 2033-2037		7
43	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> , 1997 , 3443-3450		42
42	Semiconducting Langmuir-Blodgett films of ethylenedithiotetrathiafulvalene (EDT-TTF) derivatives bearing charged and uncharged aromatic substituents. <i>Journal of Materials Chemistry</i> , 1997 , 7, 901-907		27
41	A Redox-Active Tetrathiafulvalene [2]Pseudorotaxane: Spectroelectrochemical and Cyclic Voltammetric Studies of the Highly-Reversible Complexation/Decomplexation Process. <i>Journal of Organic Chemistry</i> , 1997 , 62, 885-887	4.2	92
40	Synthesis, Characterization, and Processing of New Electroactive and Photoactive Polyesters Derived from Oligothiophenes. <i>Chemistry of Materials</i> , 1997 , 9, 2815-2821	9.6	59
39	Structural and electrical studies on nickel(dmit) ₂ complexes. <i>Synthetic Metals</i> , 1997 , 86, 1839-1840	3.6	2
38	Synthesis and electrochemistry of new tetrathiafulvalene (TTF) dendrimers: X-ray crystal structure of a tetrafunctionalised TTF core unit. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1189-1197		31
37	Processing-induced chromism in thin films of polythiophene derivatives. <i>Macromolecular Rapid Communications</i> , 1997 , 18, 733-737	4.8	6
36	Preparation and characterisation of conductive Langmuir-Blodgett films of a tetrabutylammonium-Ni(dmit) ₂ complex. <i>Journal of Materials Chemistry</i> , 1996 , 6, 699-704		11
35	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> , 1996 , 1587-1593		24
34	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> , 1996 , 2453		23
33	Application of electrochemical techniques to the study of Langmuir-Blodgett films of N-octadecylpyridinium-Ni(dmit) ₂ . <i>Thin Solid Films</i> , 1996 , 284-285, 512-515	2.2	3
32	Preparation and characterisation of conductive Langmuir-Blodgett films of amphiphilic pyridinium-Ni(dmit) ₂ salts. <i>Journal of Materials Chemistry</i> , 1995 , 5, 1601-1608		14
31	Semiconducting Langmuir-Blodgett films of non-amphiphilic ethylenedithio-tetrathiafulvalene derivatives bearing pyridine and pyridinium substituents. <i>Journal of the Chemical Society Chemical Communications</i> , 1995 , 475-476		27
30	Semi-conducting Langmuir-Blodgett films of a novel amphiphilic bis(tetrathiafulvalene) derivative. <i>Journal of Materials Chemistry</i> , 1995 , 5, 191-192		5
29	Conducting Langmuir-Blodgett films of an amphiphilic unsymmetrical ethylenedithiotetrathiafulvalene derivative: EDT-TTF-CH ₂ OC(O)C ₁₇ H ₃₅ . <i>Journal of Materials Chemistry</i> , 1995 , 5, 1593-1599		13
28	A Comparative Study of the Electrochemical Properties of Dip-Coated, Spun, and Langmuir-Blodgett Films of Polyaniline. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 1573-1576	3.9	69

27	Electrochemical properties of hexadecanoyltetrathiafulvalene Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1994 , 238, 280-284	2.2	11
26	Electrochemical properties of Langmuir-Blodgett films. <i>Journal of Electroanalytical Chemistry</i> , 1994 , 379, 3-19	4.1	47
25	Benzene polymerization in 1-ethyl-3-methylimidazolium chloride-AlCl ₃ ionic liquid. <i>Synthetic Metals</i> , 1994 , 64, 63-68	3.6	33
24	Stoichiometry of Latent Acidity in Buffered Chloroaluminate Ionic Liquids. <i>Analytical Chemistry</i> , 1994 , 66, 3558-3561	7.8	22
23	Highly Conducting Langmuir-Blodgett films of an amphiphilic Bis(ethylenedithio)tetrathiafulvalene (BEDT-TTF) derivative: BEDT-TTF-C18H37. <i>Chemistry of Materials</i> , 1994 , 6, 1426-1431	9.6	25
22	Anodic synthesis of poly(p-phenylene). <i>Synthetic Metals</i> , 1993 , 58, 271-293	3.6	62
21	Electrochemical studies on Langmuir-Blodgett films of 1-tert-butyl-1,9-dihydrofullerene-60. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 1310-1312		19
20	Schottky diodes based on poly(p-phenylene) and poly(1,4-dipyrrrolobenzene). <i>Synthetic Metals</i> , 1993 , 53, 399-402	3.6	12
19	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> , 1993 , 55, 1365-1370	3.6	10
18	Low potential benzene electropolymerization with triflic acid: Electropolymerization in dichloromethane on Pt and Fe electrodes. <i>Synthetic Metals</i> , 1993 , 55, 1360-1364	3.6	4
17	Water-sensitive sensor based on modified poly(vinyl chloride). <i>Synthetic Metals</i> , 1993 , 53, 403-407	3.6	7
16	Electropolymerization of benzene in a two-phase strong proton acid-benzene system. <i>Synthetic Metals</i> , 1992 , 51, 343-348	3.6	4
15	Electrochemical synthesis of composite poly(p-phenylene) materials. <i>Synthetic Metals</i> , 1992 , 51, 339-342	3.6	5
14	Low potential anodic polymerization of benzene in methanesulfonic and trifluoromethanesulfonic acid solutions. <i>Synthetic Metals</i> , 1992 , 51, 349-353	3.6	5
13	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> , 1992 , 327, 173-184	4.1	18
12	Low potential anodic polymerization of benzene in strong acid and superacid solutions. <i>Journal of Electroanalytical Chemistry</i> , 1992 , 335, 151-161	4.1	28
11	A study of benzene electropolymerization in the Bu ₄ NBF ₄ -oleum-CH ₂ Cl ₂ system. <i>Synthetic Metals</i> , 1991 , 44, 133-142	3.6	9
10	Investigation of poly(p-phenylene) obtained in electrochemical oxidation of benzene in the BuPyCl ₂ AlCl ₃ melt and in organic solvents with oleum. <i>Synthetic Metals</i> , 1991 , 43, 3071-3074	3.6	11

9	Controlled synthesis of organic superconductors and conductors of the (BEDT-TTF) ₄ Hg ₃ X ₈ composition (X = Cl, Br, I). <i>Synthetic Metals</i> , 1991 , 42, 2143-2146	3.6	10
8	Study of doped polypyrrole by the spin probe method at 3 cm and 2 mm waveband EPR. <i>Synthetic Metals</i> , 1991 , 44, 205-211	3.6	12
7	Oleum as an electrolyte of anodic polymerization of benzene. <i>Synthetic Metals</i> , 1991 , 44, 107-110	3.6	7
6	The Schottky device based on doped poly(p-phenylene). <i>Synthetic Metals</i> , 1991 , 44, 199-203	3.6	19
5	Electrochemical synthesis of polymers from 1,4-dipyrrolobenzene. <i>Synthetic Metals</i> , 1991 , 40, 393-396	3.6	1
4	Investigation of poly(p-phenylene) obtained by electrochemical oxidation of benzene in a BuPyCl ₂ /AlCl ₃ melt. <i>Synthetic Metals</i> , 1990 , 36, 217-228	3.6	89
3	ESR Studies of Single Crystals of Bis(ethylenedithio)tetrathiafulvalene-Based Conductor with Octaiodinemercurate Anion (BEDT-TTF) ₄ Hg ₃ I ₈ . <i>Physica Status Solidi (B): Basic Research</i> , 1989 , 154, 333-339	3.6	4
2	E.S.R. and electrical properties of the organic metal (BEDT-TTF) ₄ Hg ₃ Cl ₈ . <i>Synthetic Metals</i> , 1988 , 24, 161-166	3.6	4
1	Photo-Induced Phenomena in Supramolecular Azobenzene Materials		47-94