Haim Grebel

List of Publications by Year
in descending order

98 papers	876 citations	471061 17 h-index	552369 26 g-index
98 all docs	98 docs citations	98 times ranked	758 citing authors

#	Article	IF	Citations
1	Optically Controlled TiO2-Embedded Supercapacitors: The Effects of Colloidal Size, Light Wavelength, and Intensity on the Cellsâ€™ Performance. Nanomaterials, 2022, 12, 1835.	1.9	0
2	Asymmetric Supercapacitors: Optical and Thermal Effects When Active Carbon Electrodes Are Embedded with Nano-Scale Semiconductor Dots. Journal of Carbon Research, 2021, 7, 7.	1.4	3
3	Parametric oscillation and amplification with gate controlled capacitor-within-capacitor. SN Applied Sciences, 2021, 3, 1.	1.5	0
4	Optical cages made of graphitic frameworks. Applied Optics, 2021, 60, 5564.	0.9	0
5	Optically Controlled Supercapacitors: Functional Active Carbon Electrodes with Semiconductor Particles. Materials, 2021, 14, 4183.	1.3	3
6	The Effect of Periodic Spatial Perturbations on the Emission Rates of Quantum Dots near Graphene Platforms. Materials, 2020, 13, 3504.	1.3	0
7	Periodic Metallo-Dielectric Structures: Electromagnetic Absorption and its Related Developed Temperatures. Materials, 2019, 12, 2108.	1.3	3
8	Greedy Algorithm for Minimizing the Cost of Routing Power on a Digital Microgrid. Energies, 2019, 12, 3076.	1.6	8
9	Optical cages. Optical Materials: X, 2019, 1, 100008.	0.3	1
10	Ion-Liquid Based Supercapacitors with Inner Gate Diode-Like Separators. ChemEngineering, 2019, 3, 39.	1.0	3
11	Capacitor-within-capacitor. SN Applied Sciences, 2019, 1, 1.	1.5	4
12	Supercapacitors with electrical gates. Electrochimica Acta, 2019, 307, 459-464.	2.6	16
13	Lifetime and linewidth of individual quantum dots interfaced with graphene. Nanoscale, 2018, 10, 7040-7046.	2.8	6
14	Integration of alternative energy sources into digital microâ€grids. Environmental Progress and Sustainable Energy, 2018, 37, 155-164.	1.3	9
15	The Digital Power Networks: Energy Dissemination Through a Micro-Grid. , 2018, , .		3
16	Transfer of Graphene with Protective Oxide Layers. ChemEngineering, 2018, 2, 58.	1.0	5
17	An Energy Packet Switch for Digital Power Grids. , 2018, , .		4
18	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid. , 2018, , .		2

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19	Logic gates with ion transistors. Thin Solid Films, 2017, 638, 138-143.	0.8	1
20	Energy management algorithm for resilient controlled delivery grids. , 2017, , .		5
21	Reducing Frequency of Request Communications with Pro-Active and Aggregated Power Management for the Controlled Delivery Power Grid. , 2017, , .		1
22	Graphene Channels Interfaced with Quantum Dots in Field Effect Transistors: Electrical and Photo-Induced Effects. MRS Advances, 2016, 1, 1597-1603.	0.5	0
23	Electrical and Photo-Induced Effects in Graphene Channels When Interfaced with Quantum Dots. Materials Research Society Symposia Proceedings, 2015, 1727, 62.	0.1	1
24	Electrochemical cells with intermediate capacitor elements. Chemical Physics Letters, 2015, 640, 36-39.	1.2	4
25	Gain and Raman line-broadening with graphene coated diamond-shape nano-antennas. Nanoscale, 2015, 7, 15321-15331.	2.8	4
26	Infrared measurements and simulations of metal meshes in a focused beam. Journal of Applied Physics, 2014, 115, 053104.	1.1	1
27	Testbed evaluations of a controlled-delivery power grid. , 2014, , .		10
28	Monitoring bound HA1(H1N1) and HA1(H5N1) on freely suspended graphene over plasmonic platforms with infrared spectroscopy. Chemical Physics Letters, 2013, 582, 134-140.	1.2	1
29	Towards bi-carrier ion-transistors: DC and optically induced effects in electrically controlled electrochemical cells. Electrochimica Acta, 2013, 95, 308-312.	2.6	5
30	Nonlinear behavior of vibrating molecules on suspended graphene waveguides. Optics Letters, 2013, 38, 226.	1.7	2
31	Management of a smart grid with controlled-delivery of discrete levels of energy. , 2013, , .		12
32	Allocation of Discrete Energy on a Cloud-Computing Datacenter Using a Digital Power Grid. , 2012, , .		19
33	Graphenated IR screen for detection of human and avian flu viruses. , 2011, , .		1
34	Micro-fluidic channels on nanopatterned substrates: Monitoring protein binding to lipid bilayers with surface-enhanced Raman spectroscopy. Chemical Physics Letters, 2010, 489, 121-126.	1.2	17
35	On the stopping potential of ionic currents. Electrochemistry Communications, 2010, 12, 274-277.	2.3	5
36	Curved infrared screens. Optics Letters, 2010, 35, 1635.	1.7	4

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37	Surface Enhanced Fluorescence (SEF): Polarization Characteristics. IEEE Sensors Journal, 2010, 10, 465-468.	2.4	8
38	Graphenated IR Screens. IEEE Sensors Journal, 2010, 10, 419-422.	2.4	5
39	Surface plasmon lasers with quantum dots as gain media. Applied Physics Letters, 2009, 95, .	1.5	25
40	Raman spectroscopy with graphenated anodized aluminum oxide substrates. Nanotechnology, 2009, 20, 295502.	1.3	7
41	The possibility for surface plasmons lasers. Optics Express, 2009, 17, 1622.	1.7	19
42	Freestanding Graphene and Its Applications. ECS Transactions, 2009, 19, 53-65.	0.3	1
43	Band pass filters in the 1Î¼m spectral region: Thick metal screens. Infrared Physics and Technology, 2008, 51, 178-185.	1.3	7
44	Depositing graphene films on solid and perforated substrates. Nanotechnology, 2008, 19, 365303.	1.3	21
45	Thermoelectric properties of aligned carbon nanotubes. Applied Physics Letters, 2008, 92, 203116.	1.5	5
46	Polarization-dependent fluorescence of proteins bound to nanopore-confined lipid bilayers. Journal of Chemical Physics, 2008, 129, 095102.	1.2	10
47	Gate Controlled Negative Differential Resistance and Photoconductivity Enhancement in Carbon Nanotube Addressable Intra-connects. Materials Research Society Symposia Proceedings, 2008, 1142, 151401.	0.1	0
48	Distributed pâ€“n nano-interfaces. Journal Physics D: Applied Physics, 2008, 41, 065305.	1.3	1
49	Square-shaped metal screens in the infrared to terahertz spectral region: Resonance frequency, band gap, and bandpass filter characteristics. Journal of Applied Physics, 2008, 104, 023103.	1.1	9
50	Surface Enhanced Raman With Nano-Holes. , 2007, , .		0
51	Crisscrossed and coaligned single-wall carbon based films. Applied Physics Letters, 2007, 91, 183102.	1.5	4
52	Carbon Nanotube/Conducting Polymer Addressable Interconnects. , 2007, , .		0
53	Raman Spectrum of Graphene Coated Nano-Holes. Materials Research Society Symposia Proceedings, 2007, 1059, 1.	0.1	3
54	Surface enhanced Raman with anodized aluminum oxide films. Journal of Chemical Physics, 2007, 127, 044701.	1.2	24

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55	Synthesis of Controllably Grown Carbon Nanotubes Interconnects. Materials Research Society Symposia Proceedings, 2007, 1018, 1.	0.1	0
56	Surface enhanced raman with nano-holes. , 2007, , .		0
57	Surface enhanced Raman scattering of biospecies on anodized aluminum oxide films. Chemical Physics Letters, 2007, 440, 239-243.	1.2	30
58	Surface Enhanced Raman Scattering (SERS) with Arrays of Nanoholes on Aluminum Oxide. , 2007, , .		0
59	An Antenna Array for Ultra-Short Pulse and Ultra-Wideband Communication Systems. , 2006, , .		1
60	A non contact characterization technique of the defect states of high k dielectrics using THz radiation. , 2006, , .		0
61	A statistical ultra-wideband indoor channel model and the effects of antenna directivity on path loss and multipath propagation. IEEE Journal on Selected Areas in Communications, 2006, 24, 752-758.	9.7	45
62	An Improved 2-element Independently Center-Fed Dipole Array for Ultra-Wideband. , 2006, , .		0
63	Studies of single wall carbon nanotube growth in three-dimensional, ordered silica templates. Carbon, 2006, 44, 608-610.	5.4	2
64	Two-Element Independently Center-Fed Dipole Array for Ultrawideband and Ultrashort Pulse Applications. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 127-129.	2.4	3
65	Controlling Ionic Currents with Transistor-like Structures. ECS Transactions, 2006, 2, 1-18.	0.3	2
66	Laser-induced structural modifications in nanocrystalline silicon/amorphous silicon dioxide superlattices. Applied Physics Letters, 2006, 88, 143117.	1.5	18
67	Independently center-fed dipole array. Microwave and Optical Technology Letters, 2005, 45, 545-548.	0.9	3
68	Nonlinear transmission properties of nanostructures with single-wall carbon nanotubes and conductive polymers. Applied Physics Letters, 2005, 86, 053113.	1.5	10
69	Three-dimensional metallo-dielectric photonic crystals with cubic symmetry as stacks of two-dimensional screens. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 370.	0.8	4
70	Optical and electronic characteristics of single walled carbon nanotubes and silicon nanoclusters by tetrahertz spectroscopy. Journal of Applied Physics, 2004, 96, 6685-6689.	1.1	29
71	Structural Modifications of nc-Si/SiO2 Superlattices by Localized Photo-induced Heating. Materials Research Society Symposia Proceedings, 2004, 832, 297.	0.1	1
72	Surface-enhanced Raman scattering: phenomenological approach. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 429.	0.9	9

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73	Evidence for a solid phase of dodecahedral C 20. European Physical Journal B, 2003, 31, 509-515.	0.6	64
74	Is molybdenum necessary for the growth of single-wall carbon nanotubes from CO?. Chemical Physics Letters, 2003, 379, 395-400.	1.2	14
75	Polarized Raman scattering and localized embedded strain in self-organized Si/Ge nanostructures. Applied Physics Letters, 2003, 83, 5035-5037.	1.5	27
76	Linear and nonlinear optical properties of single-walled carbon nanotubes within an ordered array of nanosized silica spheres. Applied Physics Letters, 2003, 82, 1458-1460.	1.5	35
77	Growth of single-wall carbon nanotubes within an ordered array of nanosize silica spheres. Applied Physics Letters, 2002, 81, 433-435.	1.5	32
78	Thick inductive cross shaped metal meshes. Journal of Applied Physics, 2002, 91, 9461.	1.1	17
79	Near-field effects in multilayer inductive metal meshes. Applied Optics, 2002, 41, 1942.	2.1	11
80	Nonlinear optical properties of laser ablated silicon nanostructures. Journal of Applied Physics, 2002, 92, 2490-2494.	1.1	16
81	Detecting single-wall carbon nanotubes with surface-enhanced Raman scattering from metal-coated periodic structures. Chemical Physics Letters, 2001, 348, 203-208.	1.2	27
82	Nonlinear dispersion properties of subwavelength photonic crystals. Applied Physics Letters, 2001, 78, 1754-1756.	1.5	13
83	Nonlinear optical properties of a coherent array of submicron SiO2 spheres (opal) embedded with Si nanoparticles. Applied Physics Letters, 1999, 75, 1532-1534.	1.5	35
84	Stable hexagonal-wurtzite silicon phase by laser ablation. Applied Physics Letters, 1999, 75, 2758-2760.	1.5	45
85	HIGH-PRESSURE FORMS OF SILICON AND GERMANIUM IN LASER-ABLATED FILMS. , 1999, , .		0
86	Artificial dielectrics: Nonlinear properties of Si nanoclusters formed by ion implantation in SiO2 glassy matrix. Journal of Applied Physics, 1998, 84, 6502-6506.	1.1	38
87	Laser-induced etching of Si surfaces: The effect of weak background light. Journal of Applied Physics, 1996, 79, 4414.	1.1	2
88	Photoablation: Schottky barriers on patterned Si surfaces. Journal of Applied Physics, 1995, 77, 367-370.	1.1	3
89	Laserâ€induced etching of InP using two laser frequencies simultaneously. Journal of Applied Physics, 1992, 71, 2428-2432.	1.1	4
90	Electrical and Optical Properties of Thermid Polyimide. Materials Research Society Symposia Proceedings, 1992, 247, 241.	0.1	1

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91	Artificial dielectric polymeric waveguides: metallic embedded films. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1991, 8, 615.	0.8	6
92	Artificial dielectric polymeric waveguides: semiconductor-embedded films. Optics Letters, 1990, 15, 667.	1.7	15
93	Nonlinear optical properties of silicon nanoclusters. , 0, , .		1
94	Nonlinear optical properties of silicon nanoclusters made by laser ablation. , 0, , .		0
95	Nonlinear optical properties of ion implanted silicon nanostructures in silica. , 0, , .		0
96	Nonlinear dispersion properties of sub-wavelength photonic crystals. , 0, , .		0
97	Selective excitations in surface enhance Raman scattering. , 0, , .		0
98	Linear and nonlinear phenomena with resonating surface polariton waves and their applications. , 0, , 386-426.		1