

Haim Grebel

List of Publications by Year in descending order

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98
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471061

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552369

26
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98
all docs

98
docs citations

98
times ranked

758
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for a solid phase of dodecahedral C 20. European Physical Journal B, 2003, 31, 509-515.	0.6	64
2	Stable hexagonal-wurtzite silicon phase by laser ablation. Applied Physics Letters, 1999, 75, 2758-2760.	1.5	45
3	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
4	Artificial dielectrics: Nonlinear properties of Si nanoclusters formed by ion implantation in SiO ₂ glassy matrix. Journal of Applied Physics, 1998, 84, 6502-6506.	1.1	38
5	Nonlinear optical properties of a coherent array of submicron SiO ₂ spheres (opal) embedded with Si nanoparticles. Applied Physics Letters, 1999, 75, 1532-1534.	1.5	35
6	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
7	Growth of single-wall carbon nanotubes within an ordered array of nanosize silica spheres. Applied Physics Letters, 2002, 81, 433-435.	1.5	32
8	Surface enhanced Raman scattering of biospecies on anodized aluminum oxide films. Chemical Physics Letters, 2007, 440, 239-243.	1.2	30
9	Optical and electronic characteristics of single walled carbon nanotubes and silicon nanoclusters by terahertz spectroscopy. Journal of Applied Physics, 2004, 96, 6685-6689.	1.1	29
10	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
11	Polarized Raman scattering and localized embedded strain in self-organized Si/Ge nanostructures. Applied Physics Letters, 2003, 83, 5035-5037.	1.5	27
12	Surface plasmon lasers with quantum dots as gain media. Applied Physics Letters, 2009, 95, .	1.5	25
13	Surface enhanced Raman with anodized aluminum oxide films. Journal of Chemical Physics, 2007, 127, 044701.	1.2	24
14	Depositing graphene films on solid and perforated substrates. Nanotechnology, 2008, 19, 365303.	1.3	21
15	The possibility for surface plasmons lasers. Optics Express, 2009, 17, 1622.	1.7	19
16	Allocation of Discrete Energy on a Cloud-Computing Datacenter Using a Digital Power Grid. , 2012, , .		19
17	Laser-induced structural modifications in nanocrystalline silicon/amorphous silicon dioxide superlattices. Applied Physics Letters, 2006, 88, 143117.	1.5	18
18	Thick inductive cross shaped metal meshes. Journal of Applied Physics, 2002, 91, 9461.	1.1	17

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19	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
20	Nonlinear optical properties of laser ablated silicon nanostructures. Journal of Applied Physics, 2002, 92, 2490-2494.	1.1	16
21	Supercapacitors with electrical gates. Electrochimica Acta, 2019, 307, 459-464.	2.6	16
22	Artificial dielectric polymeric waveguides: semiconductor-embedded films. Optics Letters, 1990, 15, 667.	1.7	15
23	Is molybdenum necessary for the growth of single-wall carbon nanotubes from CO?. Chemical Physics Letters, 2003, 379, 395-400.	1.2	14
24	Nonlinear dispersion properties of subwavelength photonic crystals. Applied Physics Letters, 2001, 78, 1754-1756.	1.5	13
25	Management of a smart grid with controlled-delivery of discrete levels of energy. , 2013, , .		12
26	Near-field effects in multilayer inductive metal meshes. Applied Optics, 2002, 41, 1942.	2.1	11
27	Nonlinear transmission properties of nanostructures with single-wall carbon nanotubes and conductive polymers. Applied Physics Letters, 2005, 86, 053113.	1.5	10
28	Polarization-dependent fluorescence of proteins bound to nanopore-confined lipid bilayers. Journal of Chemical Physics, 2008, 129, 095102.	1.2	10
29	Testbed evaluations of a controlled-delivery power grid. , 2014, , .		10
30	Surface-enhanced Raman scattering: phenomenological approach. Journal of the Optical Society of America B: Optical Physics, 2004, 21, 429.	0.9	9
31	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
32	Integration of alternative energy sources into digital microgrids. Environmental Progress and Sustainable Energy, 2018, 37, 155-164.	1.3	9
33	Surface Enhanced Fluorescence (SEF): Polarization Characteristics. IEEE Sensors Journal, 2010, 10, 465-468.	2.4	8
34	Greedy Algorithm for Minimizing the Cost of Routing Power on a Digital Microgrid. Energies, 2019, 12, 3076.	1.6	8
35	Band pass filters in the 1 μ m spectral region: Thick metal screens. Infrared Physics and Technology, 2008, 51, 178-185.	1.3	7
36	Raman spectroscopy with graphenated anodized aluminum oxide substrates. Nanotechnology, 2009, 20, 295502.	1.3	7

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37	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
38	Lifetime and linewidth of individual quantum dots interfaced with graphene. Nanoscale, 2018, 10, 7040-7046.	2.8	6
39	Thermoelectric properties of aligned carbon nanotubes. Applied Physics Letters, 2008, 92, 203116.	1.5	5
40	On the stopping potential of ionic currents. Electrochemistry Communications, 2010, 12, 274-277.	2.3	5
41	Graphenated IR Screens. IEEE Sensors Journal, 2010, 10, 419-422.	2.4	5
42	Towards bi-carrier ion-transistors: DC and optically induced effects in electrically controlled electrochemical cells. Electrochimica Acta, 2013, 95, 308-312.	2.6	5
43	Energy management algorithm for resilient controlled delivery grids. , 2017, , .		5
44	Transfer of Graphene with Protective Oxide Layers. ChemEngineering, 2018, 2, 58.	1.0	5
45	Laser-induced etching of InP using two laser frequencies simultaneously. Journal of Applied Physics, 1992, 71, 2428-2432.	1.1	4
46	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
47	Crisscrossed and coaligned single-wall carbon based films. Applied Physics Letters, 2007, 91, 183102.	1.5	4
48	Curved infrared screens. Optics Letters, 2010, 35, 1635.	1.7	4
49	Electrochemical cells with intermediate capacitor elements. Chemical Physics Letters, 2015, 640, 36-39.	1.2	4
50	Gain and Raman line-broadening with graphene coated diamond-shape nano-antennas. Nanoscale, 2015, 7, 15321-15331.	2.8	4
51	An Energy Packet Switch for Digital Power Grids. , 2018, , .		4
52	Capacitor-within-capacitor. SN Applied Sciences, 2019, 1, 1.	1.5	4
53	Photoablation: Schottky barriers on patterned Si surfaces. Journal of Applied Physics, 1995, 77, 367-370.	1.1	3
54	Independently center-fed dipole array. Microwave and Optical Technology Letters, 2005, 45, 545-548.	0.9	3

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55	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
56	Raman Spectrum of Graphene Coated Nano-Holes. Materials Research Society Symposia Proceedings, 2007, 1059, 1.	0.1	3
57	The Digital Power Networks: Energy Dissemination Through a Micro-Grid. , 2018, , .		3
58	Periodic Metallo-Dielectric Structures: Electromagnetic Absorption and its Related Developed Temperatures. Materials, 2019, 12, 2108.	1.3	3
59	Ion-Liquid Based Supercapacitors with Inner Gate Diode-Like Separators. ChemEngineering, 2019, 3, 39.	1.0	3
60	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
61	Optically Controlled Supercapacitors: Functional Active Carbon Electrodes with Semiconductor Particles. Materials, 2021, 14, 4183.	1.3	3
62	Laser-induced etching of Si surfaces: The effect of weak background light. Journal of Applied Physics, 1996, 79, 4414.	1.1	2
63	Studies of single wall carbon nanotube growth in three-dimensional, ordered silica templates. Carbon, 2006, 44, 608-610.	5.4	2
64	Controlling Ionic Currents with Transistor-like Structures. ECS Transactions, 2006, 2, 1-18.	0.3	2
65	Nonlinear behavior of vibrating molecules on suspended graphene waveguides. Optics Letters, 2013, 38, 226.	1.7	2
66	Experimental evaluation of power distribution to reactive loads in a network-controlled delivery grid. , 2018, , .		2
67	Electrical and Optical Properties of Thermid Polyimide. Materials Research Society Symposia Proceedings, 1992, 247, 241.	0.1	1
68	Nonlinear optical properties of silicon nanoclusters. , 0, , .		1
69	Structural Modifications of nc-Si/SiO ₂ Superlattices by Localized Photo-induced Heating. Materials Research Society Symposia Proceedings, 2004, 832, 297.	0.1	1
70	An Antenna Array for Ultra-Short Pulse and Ultra-Wideband Communication Systems. , 2006, , .		1
71	Distributed p̂€“n nano-interfaces. Journal Physics D: Applied Physics, 2008, 41, 065305.	1.3	1
72	Freestanding Graphene and Its Applications. ECS Transactions, 2009, 19, 53-65.	0.3	1

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73	Graphenated IR screen for detection of human and avian flu viruses. , 2011, , .		1
74	Linear and nonlinear phenomena with resonating surface polariton waves and their applications. , 0, , 386-426.		1
75	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
76	Infrared measurements and simulations of metal meshes in a focused beam. Journal of Applied Physics, 2014, 115, 053104.	1.1	1
77	Electrical and Photo-Induced Effects in Graphene Channels When Interfaced with Quantum Dots. Materials Research Society Symposia Proceedings, 2015, 1727, 62.	0.1	1
78	Logic gates with ion transistors. Thin Solid Films, 2017, 638, 138-143.	0.8	1
79	Reducing Frequency of Request Communications with Pro-Active and Aggregated Power Management for the Controlled Delivery Power Grid. , 2017, , .		1
80	Optical cages. Optical Materials: X, 2019, 1, 100008.	0.3	1
81	Nonlinear optical properties of silicon nanoclusters made by laser ablation. , 0, , .		0
82	Nonlinear optical properties of ion implanted silicon nanostructures in silica. , 0, , .		0
83	Nonlinear dispersion properties of sub-wavelength photonic crystals. , 0, , .		0
84	Selective excitations in surface enhance Raman scattering. , 0, , .		0
85	A non contact characterization technique of the defect states of high k dielectrics using THz radiation. , 2006, , .		0
86	An Improved 2-element Independently Center-Fed Dipole Array for Ultra-Wideband. , 2006, , .		0
87	Surface Enhanced Raman With Nano-Holes. , 2007, , .		0
88	Carbon Nanotube/Conducting Polymer Addressable Interconnects. , 2007, , .		0
89	Synthesis of Controllably Grown Carbon Nanotubes Interconnects. Materials Research Society Symposia Proceedings, 2007, 1018, 1.	0.1	0
90	Surface enhanced raman with nano-holes. , 2007, , .		0

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91	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
92	Graphene Channels Interfaced with Quantum Dots in Field Effect Transistors: Electrical and Photo-Induced Effects. MRS Advances, 2016, 1, 1597-1603.	0.5	0
93	The Effect of Periodic Spatial Perturbations on the Emission Rates of Quantum Dots near Graphene Platforms. Materials, 2020, 13, 3504.	1.3	0
94	Parametric oscillation and amplification with gate controlled capacitor-within-capacitor. SN Applied Sciences, 2021, 3, 1.	1.5	0
95	Optical cages made of graphitic frameworks. Applied Optics, 2021, 60, 5564.	0.9	0
96	Surface Enhanced Raman Scattering (SERS) with Arrays of Nanoholes on Aluminum Oxide. , 2007, , .		0
97	HIGH-PRESSURE FORMS OF SILICON AND GERMANIUM IN LASER-ABLATED FILMS. , 1999, , .		0
98	Optically Controlled TiO ₂ -Embedded Supercapacitors: The Effects of Colloidal Size, Light Wavelength, and Intensity on the Cellsâ€™ Performance. Nanomaterials, 2022, 12, 1835.	1.9	0