

Hari Singh Nalwa

List of Publications by Year in descending order

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6,437
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136950

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92
all docs

92
docs citations

92
times ranked

8642
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible Graphene-Based Wearable Gas and Chemical Sensors. ACS Applied Materials & Interfaces, 2017, 9, 34544-34586.	8.0	603
2	A Novel Preparation Method of Organic Microcrystals. Japanese Journal of Applied Physics, 1992, 31, L1132-L1134.	1.5	599
3	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors. RSC Advances, 2019, 9, 8778-8881.	3.6	546
4	Organic Materials for Third-Order Nonlinear Optics. Advanced Materials, 1993, 5, 341-358.	21.0	478
5	Antimicrobial properties of ZnO nanomaterials: A review. Ceramics International, 2017, 43, 3940-3961.	4.8	388
6	Organometallic materials for nonlinear optics. Applied Organometallic Chemistry, 1991, 5, 349-377.	3.5	333
7	Flexible Molybdenum Disulfide (MoS ₂) Atomic Layers for Wearable Electronics and Optoelectronics. ACS Applied Materials & Interfaces, 2019, 11, 11061-11105.	8.0	277
8	Medical Applications of Nanoparticles in Biological Imaging, Cell Labeling, Antimicrobial Agents, and Anticancer Nanodrugs. Journal of Biomedical Nanotechnology, 2011, 7, 489-503.	1.1	254
9	Nanotechnology and Health Safety – Toxicity and Risk Assessments of Nanostructured Materials on Human Health. Journal of Nanoscience and Nanotechnology, 2007, 7, 3048-3070.	0.9	239
10	A review of molybdenum disulfide (MoS ₂) based photodetectors: from ultra-broadband, self-powered to flexible devices. RSC Advances, 2020, 10, 30529-30602.	3.6	211
11	Atomically Thin-Layered Molybdenum Disulfide (MoS ₂) for Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 3223-3245.	8.0	207
12	Two-dimensional transition metal dichalcogenide-based counter electrodes for dye-sensitized solar cells. RSC Advances, 2017, 7, 28234-28290.	3.6	171
13	Inkjet printed nanomaterial based flexible radio frequency identification (RFID) tag sensors for the internet of nano things. RSC Advances, 2017, 7, 48597-48630.	3.6	160
14	The Nano Man from India: In Celebration of the 60th Birthday of Dr. Hari Singh Nalwa. Journal of Nanoscience and Nanotechnology, 2014, 14, 1-14.	0.9	130
15	Graphene-Based Dye-Sensitized Solar Cells: A Review. Science of Advanced Materials, 2015, 7, 1863-1912.	0.7	103
16	Third-order nonlinear optical properties of polymorphs of oxotitanium phthalocyanine. The Journal of Physical Chemistry, 1993, 97, 10515-10517.	2.9	101
17	Third-order nonlinear optical properties of porphyrazine, phthalocyanine and naphthalocyanine germanium derivatives: Demonstrating the effect of π -conjugation length on third-order optical nonlinearity of two-dimensional molecules. Chemical Physics, 1999, 245, 17-26.	1.9	97
18	RECENT DEVELOPMENTS IN FERROELECTRIC POLYMERS. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 1991, 31, 341-432.	2.2	96

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19	2-D. charge-transfer molecules for second order nlo: off-diagonal orientation. <i>Advanced Materials</i> , 1995, 7, 754-758.	21.0	79
20	Chemical synthesis of highly electrically conductive polymers by control of oxidation potential. <i>Synthetic Metals</i> , 1991, 43, 3043-3048.	3.9	78
21	Fabrication of organic nanocrystals for electronics and photonics. <i>Advanced Materials</i> , 1993, 5, 758-760.	21.0	76
22	Stability of graphene-based heterojunction solar cells. <i>RSC Advances</i> , 2015, 5, 73575-73600.	3.6	75
23	Graphene-Based Bulk-Heterojunction Solar Cells: A Review. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6237-6278.	0.9	71
24	The role of extensively delocalized π -electrons in electrical conductivity, non-linear optical properties and physical properties of polymers. <i>Polymer</i> , 1987, 28, 543-552.	3.8	69
25	Dielectric properties of copper-phthalocyanine polymer. <i>European Polymer Journal</i> , 1985, 21, 943-947.	5.4	66
26	Phase transitions in polypyrrole and polythiophene conducting polymers demonstrated by magnetic susceptibility measurements. <i>Physical Review B</i> , 1989, 39, 5964-5974.	3.2	58
27	Third-order nonlinear optical properties of a vanadyl naphthalocyanine derivative. <i>The Journal of Physical Chemistry</i> , 1993, 97, 1097-1100.	2.9	49
28	Third-order non-linear optical properties of donor- and acceptor-substituted metallophthalocyanines. <i>Thin Solid Films</i> , 1995, 254, 218-223.	1.8	48
29	</>A Special Issue on</> Reviews in Nanomedicine, Drug Delivery and Vaccine Development. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 1635-1640.	1.1	45
30	</>A Special Issue on</> Reviews in Biomedical Applications of Nanomaterials, Tissue Engineering, Stem Cells, Bioimaging, and Toxicity. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 2421-2423.	1.1	39
31	Third-order optical nonlinearities of tetrakis-n-pentoxy carbonyl metallo-naphthalocyanines. <i>Chemical Physics Letters</i> , 1993, 203, 109-113.	2.6	36
32	Dielectric properties of cobalt phthalocyanine. <i>Journal of Materials Science Letters</i> , 1983, 2, 22-24.	0.5	33
33	Optical, magnetic resonance and conductivity studies of the ladder polymer BBL. <i>Synthetic Metals</i> , 1989, 29, 471-476.	3.9	33
34	Evaluation of electrical conduction in iodine-doped polypyrrole. <i>Journal of Materials Science</i> , 1992, 27, 210-214.	3.7	31
35	Effect of the π -bonding sequence on third-order optical nonlinearity evaluated by ab initio calculations. <i>The Journal of Physical Chemistry</i> , 1995, 99, 10766-10774.	2.9	31
36	Second-Harmonic Generation in Langmuir-Blodgett Monolayer of a Two-Dimensional Charge-Transfer Molecule: N,N ϵ^2 -Dioctadecyl-4,6-Dinitro-1,3-Diaminobenzene. <i>Japanese Journal of Applied Physics</i> , 1991, 30, 983-989.	1.5	28

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37	Third-order nonlinear optical properties of processable polyazine thin films. Journal of Applied Physics, 1993, 73, 4743-4745.	2.5	28
38	Electrically conducting organometallic polymers. Applied Organometallic Chemistry, 1990, 4, 91-102.	3.5	25
39	Organometallic Langmuir-Blodgett films for electronics and photonics. Applied Organometallic Chemistry, 1992, 6, 645-678.	3.5	25
40	Third-order nonlinear optical properties of pyridine- and ferrocene-containing polyazines. Materials Letters, 1997, 33, 23-26.	2.6	25
41	The effect of central metal atom on the electrical properties of phthalocyanine macromolecule. Journal of Electronic Materials, 1988, 17, 291-295.	2.2	24
42	Large Third-order Optical Non-linearities of Spin-cast Thin Films of Novel Metallo-naphthalocyanines. Journal of Porphyrins and Phthalocyanines, 1998, 02, 21-30.	0.8	24
43	A comparative study of 4-nitroaniline, 1,5-diamino-2,4-dinitrobenzene and 1,3,5-triamino-2,4,6-trinitrobenzene and their molecular engineering for second-order nonlinear optics. Optical Materials, 1993, 2, 73-81.	3.6	20
44	A soluble conducting copolymer of 3-methylthiophene and methyl methacrylate. Synthetic Metals, 1990, 35, 387-391.	3.9	19
45	Third-order nonlinear optical properties of polyazine derivatives. Synthetic Metals, 1993, 57, 3901-3906.	3.9	18
46	Third-order optical nonlinearity in a processible copolymer of 3-methylthiophene and methyl methacrylate. Journal Physics D: Applied Physics, 1990, 23, 745-747.	2.8	16
47	Chemical synthesis of processible electrically conducting poly(3-dodecylthiophene). Angewandte Makromolekulare Chemie, 1991, 188, 105-111.	0.2	16
48	Optical and X-ray photoelectron spectroscopic studies of electrically conducting benzimidazobenzophenanthroline type ladder polymers. Polymer, 1991, 32, 802-807.	3.8	16
49	Polyquinoline/bismaleimide composites as high-temperature-resistant materials. Applied Physics Letters, 1998, 72, 1311-1313.	3.3	14
50	Pyroelectricity in thiourea formaldehyde polymer. Journal of Applied Physics, 1979, 50, 4324-4326.	2.5	13
51	Electrical properties of thiourea-formaldehyde condensates. European Polymer Journal, 1981, 17, 145-149.	5.4	12
52	Electrical properties of nickel-phthalocyanine. Journal of Materials Science Letters, 1983, 2, 71-76.	0.5	12
53	Structural determination of a semiconductive tetramer of aniline by IR, UV-visible, ESR, XPS and mass spectroscopy techniques. Journal of Materials Science, 1991, 26, 1683-1690.	3.7	12
54	Studies of Third-Order Nonlinear Optical Properties of Polyazine and Its Oligomers. Japanese Journal of Applied Physics, 1993, 32, L193-L196.	1.5	12

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55	Chemical synthesis and spectroscopic studies of soluble electrically conducting copolymers of 3-methylthiophene and methyl methacrylate. <i>Polymer</i> , 1991, 32, 745-750.	3.8	11
56	Second-order nonlinear optical properties of an aromatic polyurea exhibiting optical transparency down to 300 nm. <i>Applied Physics Letters</i> , 1993, 62, 3223-3225.	3.3	11
57	N-Phenylated aromatic polyurea: a new non-linear optical material exhibiting large second harmonic generation and u.v. transparency. <i>Polymer</i> , 1993, 34, 657-659.	3.8	10
58	Thermally stimulated depolarization effect in thiourea-formaldehyde condensate. <i>Polymer</i> , 1983, 24, 1197-1202.	3.8	9
59	X-Ray photoelectron spectroscopy and electrical conductivity studies of metallophthalocyanine sheet polymers. <i>Applied Organometallic Chemistry</i> , 1991, 5, 203-206.	3.5	9
60	Ferroelectric Polarization Reversal Stabilized by Hydrogen Bonding in N-Phenylated Aromatic Polyurea. <i>Polymer Journal</i> , 1994, 26, 505-507.	2.7	9
61	Third-order Nonlinear Optical Properties of Octa-substituted Metal-free Phthalocyanine Thin Films. <i>Applied Organometallic Chemistry</i> , 1996, 10, 661-664.	3.5	9
62	Thermally stimulated currents in thiourea formaldehyde polymers. <i>Angewandte Makromolekulare Chemie</i> , 1979, 82, 39-53.	0.2	8
63	Thiourea-formaldehyde condensate: Synthesis, characterization and electrical resistivity. <i>Materials Research Bulletin</i> , 1983, 18, 897-902.	5.2	8
64	Effect of solvent-washing on electrical resistivity of copper-phthalocyanine oligomer (tetramer). <i>Journal of Materials Science Letters</i> , 1983, 2, 77-79.	0.5	8
65	Third-order nonlinear optical properties of trans-dihydroxy-1,6,11,16-tetra(tert.butyl)porphyrine germanium thin films. <i>Applied Physics Letters</i> , 1997, 71, 2070-2072.	3.3	8
66	High Performance Polyquinoline/Bismaleimide Miscible Blends. <i>Chemistry of Materials</i> , 1998, 10, 2462-2469.	6.7	7
67	Electrical properties of melamine-thiourea-formaldehyde condensates. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1983, 4, 45-48.	1.1	6
68	Large third-order optical nonlinearities of spin-coated thin films of novel metallophthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 1998, 2, 21-30.	0.8	6
69	Chloro-iron phthalocyanine: characterization and electrical properties. <i>Journal of Materials Science Letters</i> , 1985, 4, 943-947.	0.5	5
70	X-ray photoelectron spectroscopy studies of electrically conducting phenothiazine, phenoxazine and quinoxaline ladder polymers. <i>Journal of Materials Science Letters</i> , 1990, 9, 1296-1299.	0.5	5
71	Third-order non-linear optical susceptibility measurements of thin films of 3-methylthiophene and methylmethacrylate copolymers. <i>Thin Solid Films</i> , 1993, 235, 175-181.	1.8	5
72	Welcome to the < >Journal of Nanoscience and Nanotechnology</ >. <i>Journal of Nanoscience and Nanotechnology</i> , 2001, 1, 1-1.	0.9	5

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73	Characterization and studies of electroactive properties of an organometallic polymer of iron-phthalocyanine. Applied Organometallic Chemistry, 1988, 2, 257-262.	3.5	4
74	Polyimides for Microelectronics and Tribology Applications. , 2001, , 643-726.		4
75	High Permittivity in Polymers: Structure and Property Correlation. IEEE Transactions on Electrical Insulation, 1985, EI-20, 975-977.	0.8	3
76	Aromatic polyurea exhibiting large second harmonic generation and UV transparency. Synthetic Metals, 1993, 57, 3895-3900.	3.9	3
77	Fabrication and spectroscopic characterization of the nanocrystals of poly[5,7-dodecadiyn-1,12-diol bis(n-butoxycarbonylmethyl urethane)]. Polymers for Advanced Technologies, 1995, 6, 69-75.	3.2	3
78	Metal complexes of ortho-and para-chlorophenyl hydrazines. Journal of Inorganic and Nuclear Chemistry, 1981, 43, 3377-3381.	0.5	2
79	Optical second-harmonic generation in Langmuir-Blodgett monolayers of N-octadecyl-2,4-dinitro-5-fluoroaniline. Thin Solid Films, 1993, 227, 205-210.	1.8	2
80	Infrared and electron spin resonance spectroscopic characterization of a processable electrically conducting copolymer of 3-methylthiophene and methyl methacrylate. Materials Letters, 1993, 17, 175-178.	2.6	2
81	The influence of extended conjugation on electroactive properties of copper phthalocyanine macromolecules. Applied Organometallic Chemistry, 1988, 2, 463-467.	3.5	1
82	DEDICATION To Professor A. B. P. Lever on the Occasion of his 60th Birthday. Applied Organometallic Chemistry, 1996, 10, 549-556.	3.5	1
83	Low-k materials for microelectronics interconnects. , 2001, , 201-234.		1
84	Welcome to the Journal of Scientific Conference Proceedings. Journal of Scientific Conference Proceedings, 2009, 1, 1-2.	0.1	1
85	Special Issue on NANODEVICES. Journal of Nanoscience and Nanotechnology, 2002, 2, 233-233.	0.9	0
86	Welcome to the: Advanced Science Letters. Advanced Science Letters, 2008, 1, 1-2.	0.2	0
87	Two-dimensional charge-transfer molecules for optimizing second-harmonic generation in Langmuir-Blodgett films. , 1992, , 271-276.		0