

# Hari Singh Nalwa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6638933/publications.pdf>

Version: 2024-02-01

87  
papers

6,437  
citations

136950

32  
h-index

64796

79  
g-index

92  
all docs

92  
docs citations

92  
times ranked

8642  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of molybdenum disulfide (MoS <sub>2</sub> ) based photodetectors: from ultra-broadband, self-powered to flexible devices. RSC Advances, 2020, 10, 30529-30602.	3.6	211
2	A review on graphene-based nanocomposites for electrochemical and fluorescent biosensors. RSC Advances, 2019, 9, 8778-8881.	3.6	546
3	Flexible Molybdenum Disulfide (MoS <sub>2</sub> ) Atomic Layers for Wearable Electronics and Optoelectronics. ACS Applied Materials & Interfaces, 2019, 11, 11061-11105.	8.0	277
4	Two-dimensional transition metal dichalcogenide-based counter electrodes for dye-sensitized solar cells. RSC Advances, 2017, 7, 28234-28290.	3.6	171
5	Antimicrobial properties of ZnO nanomaterials: A review. Ceramics International, 2017, 43, 3940-3961.	4.8	388
6	Atomically Thin-Layered Molybdenum Disulfide (MoS <sub>2</sub> ) for Bulk-Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2017, 9, 3223-3245.	8.0	207
7	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
8	Flexible Graphene-Based Wearable Gas and Chemical Sensors. ACS Applied Materials & Interfaces, 2017, 9, 34544-34586.	8.0	603
9	Stability of graphene-based heterojunction solar cells. RSC Advances, 2015, 5, 73575-73600.	3.6	75
10	Graphene-Based Dye-Sensitized Solar Cells: A Review. Science of Advanced Materials, 2015, 7, 1863-1912.	0.7	103
11	Graphene-Based Bulk-Heterojunction Solar Cells: A Review. Journal of Nanoscience and Nanotechnology, 2015, 15, 6237-6278.	0.9	71
12	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
13	&lt;&gt;A Special Issue on&lt;&gt; Reviews in Nanomedicine, Drug Delivery and Vaccine Development. Journal of Biomedical Nanotechnology, 2014, 10, 1635-1640.	1.1	45
14	&lt;&gt;A Special Issue on&lt;&gt; Reviews in Biomedical Applications of Nanomaterials, Tissue Engineering, Stem Cells, Bioimaging, and Toxicity. Journal of Biomedical Nanotechnology, 2014, 10, 2421-2423.	1.1	39
15	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
16	Welcome to the Journal of Scientific Conference Proceedings. Journal of Scientific Conference Proceedings, 2009, 1, 1-2.	0.1	1
17	Welcome to the: Advanced Science Letters. Advanced Science Letters, 2008, 1, 1-2.	0.2	0
18	Nanotechnology and Health Safety â€“ Toxicity and Risk Assessments of Nanostructured Materials on Human Health. Journal of Nanoscience and Nanotechnology, 2007, 7, 3048-3070.	0.9	239

#	ARTICLE	IF	CITATIONS
19	Special Issue on NANODEVICES. Journal of Nanoscience and Nanotechnology, 2002, 2, 233-233.	0.9	0
20	Low-k materials for microelectronics interconnects. , 2001, , 201-234.		1
21	Polyimides for Microelectronics and Tribology Applications. , 2001, , 643-726.		4
22	Welcome to the < >Journal of Nanoscience and Nanotechnology</ >. Journal of Nanoscience and Nanotechnology, 2001, 1, 1-1.	0.9	5
23	Third-order nonlinear optical properties of porphyrazine, phthalocyanine and naphthalocyanine germanium derivatives: Demonstrating the effect of I€-conjugation length on third-order optical nonlinearity of two-dimensional molecules. Chemical Physics, 1999, 245, 17-26.	1.9	97
24	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
25	High Performance Polyquinoline/Bismaleimide Miscible Blends. Chemistry of Materials, 1998, 10, 2462-2469.	6.7	7
26	Polyquinoline/bismaleimide composites as high-temperature-resistant materials. Applied Physics Letters, 1998, 72, 1311-1313.	3.3	14
27	Large third-order optical non-linearities of spin-cast thin films of novel metallo-naphthalocyanines. Journal of Porphyrins and Phthalocyanines, 1998, 2, 21-30.	0.8	6
28	Third-order nonlinear optical properties of trans-dihydroxy-1,6,11,16-tetra(tert.butyl)porphyrazine germanium thin films. Applied Physics Letters, 1997, 71, 2070-2072.	3.3	8
29	Third-order nonlinear optical properties of pyridine- and ferrocene-containing polyazines. Materials Letters, 1997, 33, 23-26.	2.6	25
30	DEDICATION To Professor A. B. P. Lever on the Occasion of his 60th Birthday. Applied Organometallic Chemistry, 1996, 10, 549-556.	3.5	1
31	Third-order Nonlinear Optical Properties of Octa-substituted Metal-free Phthalocyanine Thin Films. Applied Organometallic Chemistry, 1996, 10, 661-664.	3.5	9
32	2-D. charge-transfer molecules for second order nlo: off-diagonal orientation. Advanced Materials, 1995, 7, 754-758.	21.0	79
33	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
34	Third-order non-linear optical properties of donor- and acceptor-substituted metallophthalocyanines. Thin Solid Films, 1995, 254, 218-223.	1.8	48
35	Effect of the .pi.-bonding sequence on third-order optical nonlinearity evaluated by ab initio calculations. The Journal of Physical Chemistry, 1995, 99, 10766-10774.	2.9	31
36	Ferroelectric Polarization Reversal Stabilized by Hydrogen Bonding in N-Phenylated Aromatic Polyurea. Polymer Journal, 1994, 26, 505-507.	2.7	9

#	ARTICLE	IF	CITATIONS
37	Third-order optical nonlinearities of tetrakis-n-pentoxy carbonyl metallo-naphthalocyanines. <i>Chemical Physics Letters</i> , 1993, 203, 109-113.	2.6	36
38	Organic Materials for Third-Order Nonlinear Optics. <i>Advanced Materials</i> , 1993, 5, 341-358.	21.0	478
39	Fabrication of organic nanocrystals for electronics and photonics. <i>Advanced Materials</i> , 1993, 5, 758-760.	21.0	76
40	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
41	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
42	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. <i>Optical Materials</i> , 1993, 2, 73-81.	3.6	20
43	Optical second-harmonic generation in Langmuir-Blodgett monolayers of N-octadecyl-2,4-dinitro-5-fluoroaniline. <i>Thin Solid Films</i> , 1993, 227, 205-210.	1.8	2
44	Aromatic polyurea exhibiting large second harmonic generation and UV transparency. <i>Synthetic Metals</i> , 1993, 57, 3895-3900.	3.9	3
45	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
46	Third-order nonlinear optical properties of polyazine derivatives. <i>Synthetic Metals</i> , 1993, 57, 3901-3906.	3.9	18
47	Infrared and electron spin resonance spectroscopic characterization of a processable electrically conducting copolymer of 3-methylthiophene and methyl methacrylate. <i>Materials Letters</i> , 1993, 17, 175-178.	2.6	2
48	Third-order nonlinear optical properties of a vanadyl naphthalocyanine derivative. <i>The Journal of Physical Chemistry</i> , 1993, 97, 1097-1100.	2.9	49
49	Third-order nonlinear optical properties of polymorphs of oxotitanium phthalocyanine. <i>The Journal of Physical Chemistry</i> , 1993, 97, 10515-10517.	2.9	101
50	Studies of Third-Order Nonlinear Optical Properties of Polyazine and Its Oligomers. <i>Japanese Journal of Applied Physics</i> , 1993, 32, L193-L196.	1.5	12
51	Third-order nonlinear optical properties of processable polyazine thin films. <i>Journal of Applied Physics</i> , 1993, 73, 4743-4745.	2.5	28
52	A Novel Preparation Method of Organic Microcrystals. <i>Japanese Journal of Applied Physics</i> , 1992, 31, L1132-L1134.	1.5	599
53	Evaluation of electrical conduction in iodine-doped polypyrrole. <i>Journal of Materials Science</i> , 1992, 27, 210-214.	3.7	31
54	Organometallic Langmuir-Blodgett films for electronics and photonics. <i>Applied Organometallic Chemistry</i> , 1992, 6, 645-678.	3.5	25

#	ARTICLE	IF	CITATIONS
55	Two-dimensional charge-transfer molecules for optimizing second-harmonic generation in Langmuir-Blodgett films. , 1992, , 271-276.		0
56	Second-Harmonic Generation in Langmuir-Blodgett Monolayer of a Two-Dimensional Charge-Transfer Molecule: N,Nâ€²-Dioctadecyl-4,6-Dinitro-1,3-Diaminobenzene. Japanese Journal of Applied Physics, 1991, 30, 983-989.	1.5	28
57	Chemical synthesis of highly electrically conductive polymers by control of oxidation potential. Synthetic Metals, 1991, 43, 3043-3048.	3.9	78
58	Chemical synthesis and spectroscopic studies of soluble electrically conducting copolymers of 3-methylthiophene and methyl methacrylate. Polymer, 1991, 32, 745-750.	3.8	11
59	Chemical synthesis of processible electrically conducting poly(3-dodecylthiophene). Angewandte Makromolekulare Chemie, 1991, 188, 105-111.	0.2	16
60	X-Ray photoelectron spectroscopy and electrical conductivity studies of metallophthalocyanine sheet polymers. Applied Organometallic Chemistry, 1991, 5, 203-206.	3.5	9
61	Organometallic materials for nonlinear optics. Applied Organometallic Chemistry, 1991, 5, 349-377.	3.5	333
62	Optical and X-ray photoelectron spectroscopic studies of electrically conducting benzimidazobenzophenanthroline type ladder polymers. Polymer, 1991, 32, 802-807.	3.8	16
63	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
64	RECENT DEVELOPMENTS IN FERROELECTRIC POLYMERS. Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics, 1991, 31, 341-432.	2.2	96
65	X-ray photoelectron spectroscopy studies of electrically conducting phenothiazine, phenoxazine and quinoxaline ladder polymers. Journal of Materials Science Letters, 1990, 9, 1296-1299.	0.5	5
66	Electrically conducting organometallic polymers. Applied Organometallic Chemistry, 1990, 4, 91-102.	3.5	25
67	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
68	A soluble conducting copolymer of 3-methylthiophene and methyl methacrylate. Synthetic Metals, 1990, 35, 387-391.	3.9	19
69	Optical, magnetic resonance and conductivity studies of the ladder polymer BBL. Synthetic Metals, 1989, 29, 471-476.	3.9	33
70	Phase transitions in polypyrrole and polythiophene conducting polymers demonstrated by magnetic susceptibility measurements. Physical Review B, 1989, 39, 5964-5974.	3.2	58
71	Characterization and studies of electroactive properties of an organometallic polymer of iron-phthalocyanine. Applied Organometallic Chemistry, 1988, 2, 257-262.	3.5	4
72	The influence of extended conjugation on electroactive properties of copper phthalocyanine macromolecules. Applied Organometallic Chemistry, 1988, 2, 463-467.	3.5	1

#	ARTICLE	IF	CITATIONS
73	The effect of central metal atom on the electrical properties of phthalocyanine macromolecule. Journal of Electronic Materials, 1988, 17, 291-295.	2.2	24
74	The role of extensively delocalized $\pi$ -electrons in electrical conductivity, non-linear optical properties and physical properties of polymers. Polymer, 1987, 28, 543-552.	3.8	69
75	Chloro-iron phthalocyanine: characterization and electrical properties. Journal of Materials Science Letters, 1985, 4, 943-947.	0.5	5
76	Dielectric properties of copper-phthalocyanine polymer. European Polymer Journal, 1985, 21, 943-947.	5.4	66
77	High Permittivity in Polymers: Structure and Property Correlation. IEEE Transactions on Electrical Insulation, 1985, EI-20, 975-977.	0.8	3
78	Thiourea-formaldehyde condensate: Synthesis, characterization and electrical resistivity. Materials Research Bulletin, 1983, 18, 897-902.	5.2	8
79	Electrical properties of nickel-phthalocyanine. Journal of Materials Science Letters, 1983, 2, 71-76.	0.5	12
80	Effect of solvent-washing on electrical resistivity of copper-phthalocyanine oligomer (tetramer). Journal of Materials Science Letters, 1983, 2, 77-79.	0.5	8
81	Dielectric properties of cobalt phthalocyanine. Journal of Materials Science Letters, 1983, 2, 22-24.	0.5	33
82	Electrical properties of melamine-thiourea-formaldehyde condensates. Die Makromolekulare Chemie Rapid Communications, 1983, 4, 45-48.	1.1	6
83	Thermally stimulated depolarization effect in thiourea-formaldehyde condensate. Polymer, 1983, 24, 1197-1202.	3.8	9
84	Metal complexes of ortho-and para-chlorophenyl hydrazines. Journal of Inorganic and Nuclear Chemistry, 1981, 43, 3377-3381.	0.5	2
85	Electrical properties of thiourea-formaldehyde condensates. European Polymer Journal, 1981, 17, 145-149.	5.4	12
86	Pyroelectricity in thiourea formaldehyde polymer. Journal of Applied Physics, 1979, 50, 4324-4326.	2.5	13
87	Thermally stimulated currents in thiourea formaldehyde polymers. Angewandte Makromolekulare Chemie, 1979, 82, 39-53.	0.2	8