

Nestor Perea-Lopez

List of Publications by Year in descending order

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77
papers

7,732
citations

126907

33
h-index

79698

73
g-index

78
all docs

78
docs citations

78
times ranked

12320
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of spectroscopy features in layered MoS _x Se _(2-x) solid solutions. Materials Research Express, 2022, 9, 046301.	1.6	1
2	Interaction of gases with monolayer WS ₂ : an <i>in situ</i> spectroscopy study. Nanoscale, 2021, 13, 11470-11477.	5.6	10
3	Confined Crack Propagation in MoS ₂ Monolayers by Creating Atomic Vacancies. ACS Nano, 2021, 15, 1210-1216.	14.6	19
4	Quantification and Healing of Defects in Atomically Thin Molybdenum Disulfide: Beyond the Controlled Creation of Atomic Defects. ACS Nano, 2021, 15, 9658-9669.	14.6	37
5	Defect creation in WSe ₂ with a microsecond photoluminescence lifetime by focused ion beam irradiation. Nanoscale, 2020, 12, 2047-2056.	5.6	30
6	Temperature- and power-dependent phonon properties of suspended few layers of tungsten diselenide. Vibrational Spectroscopy, 2020, 111, 103169.	2.2	10
7	Second harmonic generation in two-dimensional transition metal dichalcogenides with growth and post-synthesis defects. 2D Materials, 2020, 7, 045020.	4.4	10
8	Hollow "graphene" microtubes using polyacrylonitrile nanofiber template and potential applications of field emission. Carbon, 2020, 167, 439-445.	10.3	3
9	Clean Transfer of 2D Transition Metal Dichalcogenides Using Cellulose Acetate for Atomic Resolution Characterizations. ACS Applied Nano Materials, 2019, 2, 5320-5328.	5.0	33
10	Dynamics of cleaning, passivating and doping monolayer MoS ₂ by controlled laser irradiation. 2D Materials, 2019, 6, 045031.	4.4	40
11	Angstrom-Size Defect Creation and Ionic Transport through Pores in Single-Layer MoS ₂ . Nano Letters, 2018, 18, 1651-1659.	9.1	129
12	Carbon-rich shungite as a natural resource for efficient Li-ion battery electrodes. Carbon, 2018, 130, 105-111.	10.3	31
13	Probing the interaction of noble gases with pristine and nitrogen-doped graphene through Raman spectroscopy. Physical Review B, 2018, 97, .	3.2	7
14	Optical identification of sulfur vacancies: Bound excitons at the edges of monolayer tungsten disulfide. Science Advances, 2017, 3, e1602813.	10.3	213
15	Aligned carbon nanotube/zinc oxide nanowire hybrids as high performance electrodes for supercapacitor applications. Journal of Applied Physics, 2017, 121, .	2.5	35
16	Atomically Thin Layers of Graphene and Hexagonal Boron Nitride Made by Solvent Exfoliation of Their Phosphoric Acid Intercalation Compounds. ACS Nano, 2017, 11, 6746-6754.	14.6	35
17	Photoluminescence Enhancement of Titanate Nanotubes by Insertion of Rare Earth Ions in Their Interlayer Spaces. Journal of Nanomaterials, 2017, 2017, 1-9.	2.7	19
18	Distinct photoluminescence and Raman spectroscopy signatures for identifying highly crystalline WS ₂ monolayers produced by different growth methods. Journal of Materials Research, 2016, 31, 931-944.	2.6	95

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19	Fabrication and characterization of ultraviolet photosensors from ZnO nanowires prepared using chemical bath deposition method. <i>Journal of Applied Physics</i> , 2016, 119, 084306.	2.5	33
20	Electric-Field-Assisted Directed Assembly of Transition Metal Dichalcogenide Monolayer Sheets. <i>ACS Nano</i> , 2016, 10, 5006-5014.	14.6	9
21	Temperature- and power-dependent phonon properties of suspended continuous WS ₂ monolayer films. <i>Vibrational Spectroscopy</i> , 2016, 86, 270-276.	2.2	15
22	Tunable and label-free virus enrichment for ultrasensitive virus detection using carbon nanotube arrays. <i>Science Advances</i> , 2016, 2, e1601026.	10.3	73
23	Ultrasensitive molecular sensor using N-doped graphene through enhanced Raman scattering. <i>Science Advances</i> , 2016, 2, e1600322.	10.3	174
24	Third order nonlinear optical response exhibited by mono- and few-layers of WS ₂ . <i>2D Materials</i> , 2016, 3, 021005.	4.4	46
25	Hall and field-effect mobilities in few layered p-WSe ₂ field-effect transistors. <i>Scientific Reports</i> , 2015, 5, 8979.	3.3	107
26	3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties. <i>Advanced Functional Materials</i> , 2015, 25, 4985-4993.	14.9	18
27	Covalent Networks: 3D Nanocomposites of Covalently Interconnected Multiwalled Carbon Nanotubes with SiC with Enhanced Thermal and Electrical Properties (<i>Adv. Funct. Mater.</i> 31/2015). <i>Advanced Functional Materials</i> , 2015, 25, 4922-4922.	14.9	2
28	Electronic, magnetic, optical, and edge-reactivity properties of semiconducting and metallic WS ₂ nanoribbons. <i>2D Materials</i> , 2015, 2, 015002.	4.4	24
29	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poisson's ratio. <i>Nature Communications</i> , 2015, 6, 6141.	12.8	458
30	Ultrasensitive gas detection of large-area boron-doped graphene. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14527-14532.	7.1	177
31	Tellurium-Assisted Low-Temperature Synthesis of MoS ₂ and WS ₂ Monolayers. <i>ACS Nano</i> , 2015, 9, 11658-11666.	14.6	123
32	(Ga,In)P nanowires grown without intentional catalyst. <i>Journal of Crystal Growth</i> , 2015, 431, 72-78.	1.5	5
33	Two-dimensional transition metal dichalcogenides: Clusters, ribbons, sheets and more. <i>Nano Today</i> , 2015, 10, 559-592.	11.9	107
34	Graphene: Large-Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing (<i>Adv. Mater.</i> 45/2014). <i>Advanced Materials</i> , 2014, 26, 7676-7676.	21.0	0
35	Ultrashort optical pulse characterization using WS ₂ monolayers. <i>Optics Letters</i> , 2014, 39, 383.	3.3	33
36	Facile synthesis of MoS ₂ and Mo _x W _{1-x} S ₂ triangular monolayers. <i>APL Materials</i> , 2014, 2, .	5.1	93

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37	Pine-tree-like morphologies of nitrogen-doped carbon nanotubes: Electron field emission enhancement. <i>Journal of Materials Research</i> , 2014, 29, 2441-2450.	2.6	4
38	Harmonic generation in 2D layered materials. , 2014, , .		0
39	Three-dimensional Nanotube Networks and a New Horizon of Applications. , 2014, , 457-493.		2
40	Direct Synthesis of van der Waals Solids. <i>ACS Nano</i> , 2014, 8, 3715-3723.	14.6	253
41	Large Area Si-Doped Graphene: Controllable Synthesis and Enhanced Molecular Sensing. <i>Advanced Materials</i> , 2014, 26, 7593-7599.	21.0	116
42	Discovery of Wall-Selective Carbon Nanotube Growth Conditions <i>via</i> Automated Experimentation. <i>ACS Nano</i> , 2014, 8, 10214-10222.	14.6	70
43	Dislocation motion and grain boundary migration in two-dimensional tungsten disulphide. <i>Nature Communications</i> , 2014, 5, 4867.	12.8	192
44	Super-stretchable Graphene Oxide Macroscopic Fibers with Outstanding Knotability Fabricated by Dry Film Scrolling. <i>ACS Nano</i> , 2014, 8, 5959-5967.	14.6	170
45	Synthesis, Characterization and Magnetic Properties of Defective Nitrogen-Doped Multiwall Carbon Nanotubes Encapsulating Ferromagnetic Nanoparticles. <i>Journal of Nano Research</i> , 2014, 28, 39-49.	0.8	2
46	CVD-grown monolayered MoS ₂ as an effective photosensor operating at low-voltage. <i>2D Materials</i> , 2014, 1, 011004.	4.4	195
47	Synthesis, characterization and magnetic properties of Co@Au core-shell nanoparticles encapsulated by nitrogen-doped multiwall carbon nanotubes. <i>Carbon</i> , 2014, 77, 722-737.	10.3	23
48	Atomic-scale Observation of Grains and Grain Boundaries in Monolayers of WS ₂ . <i>Microscopy and Microanalysis</i> , 2014, 20, 1084-1085.	0.4	3
49	Extraordinary Second Harmonic Generation in Tungsten Disulfide Monolayers. <i>Scientific Reports</i> , 2014, 4, 5530.	3.3	262
50	Large Area Films of Alternating Graphene-Carbon Nanotube Layers Processed in Water. <i>ACS Nano</i> , 2013, 7, 10788-10798.	14.6	85
51	Microfluidic device with carbon nanotube channel walls for blood plasma extraction. , 2013, , .		2
52	Optoelectronic modulation by multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2013, 24, 045201.	2.6	14
53	Extraordinary Room-Temperature Photoluminescence in Triangular WS ₂ Monolayers. <i>Nano Letters</i> , 2013, 13, 3447-3454.	9.1	1,375
54	Formation of Nitrogen-Doped Graphene Nanoribbons <i>via</i> Chemical Unzipping. <i>ACS Nano</i> , 2013, 7, 2192-2204.	14.6	80

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55	Photosensor Device Based on Few-Layered WS ₂ Films. <i>Advanced Functional Materials</i> , 2013, 23, 5511-5517.	14.9	546
56	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. <i>Scientific Reports</i> , 2013, 3, .	3.3	1,185
57	Controlled Synthesis and Transfer of Large-Area WS ₂ Sheets: From Single Layer to Few Layers. <i>ACS Nano</i> , 2013, 7, 5235-5242.	14.6	534
58	Sensors: Photosensor Device Based on Few-Layered WS ₂ Films (<i>Adv. Funct. Mater.</i> 44/2013). <i>Advanced Functional Materials</i> , 2013, 23, 5510-5510.	14.9	7
59	Photoluminescence Properties of Eu-Doped LaSr ₂ AlO ₅ . <i>Science of Advanced Materials</i> , 2012, 4, 563-567.	0.7	9
60	Millimeter-Long Carbon Nanotubes: Outstanding Electron-Emitting Sources. <i>ACS Nano</i> , 2011, 5, 5072-5077.	14.6	50
61	Near UV-Blue Excitable Green-Emitting Nanocrystalline Oxide. <i>Advances in Materials Science and Engineering</i> , 2011, 2011, 1-7.	1.8	3
62	Ablation and optical third-order nonlinearities in Ag nanoparticles. <i>International Journal of Nanomedicine</i> , 2010, 5, 925.	6.7	24
63	Contribution of the Two-Photon Absorption to the Third Order Nonlinearity of Au Nanoparticles Embedded in TiO ₂ Films and in Ethanol Suspension. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10108-10113.	3.1	43
64	Study of Luminescence from GaN:Tb ³⁺ Powders and Thin Films Deposited by MOVPE and PLD Methods. <i>Journal of the Electrochemical Society</i> , 2009, 156, J158.	2.9	9
65	Eu ³⁺ activated GaN thin films grown on sapphire by pulsed laser deposition. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 1756-1758.	0.8	3
66	Synthesis of rare-earth activated AlN and GaN powders via a three-step conversion process. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 1889-1891.	0.8	6
67	Red-emitting SrIn ₂ O ₄ ·xH ₂ O:Eu ³⁺ phosphor powders for applications in solid state white lamps. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 092005.	2.8	18
68	A Study of Oxygen Content in GaN, AlN, and GaAlN Powders. <i>Journal of the Electrochemical Society</i> , 2008, 155, J137.	2.9	1
69	A novel hybrid pulsed laser deposition/metalorganic vapour deposition method to form rare-earth activated GaN. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 122001.	2.8	2
70	Electroluminescence from Eu ³⁺ doped Sr ₂ CeO ₄ nanocrystalline thin films. <i>Optical Materials</i> , 2006, 29, 43-46.	3.6	28
71	White light emission from Y ₂ SiO ₅ :Ce, Tb films excited by electroluminescence. <i>Optical Materials</i> , 2006, 29, 47-50.	3.6	16
72	Nanocrystalline Sr ₂ CeO ₄ thin films grown on silicon by laser ablation. <i>Thin Solid Films</i> , 2006, 497, 177-181.	1.8	8

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73	Luminescent and crystalline properties of blueâ€“white-emitting nanocrystalline Sr ₂ CeO ₄ thin films produced by laser ablation. <i>Optical Materials</i> , 2005, 27, 1212-1216.	3.6	16
74	White light emission from rare earth activated yttrium silicate nanocrystalline powders and thin films. <i>Optical Materials</i> , 2005, 27, 1221-1227.	3.6	43
75	Luminescence study in Eu-doped aluminum oxide phosphors. <i>Optical Materials</i> , 2005, 27, 1311-1315.	3.6	62
76	Current-heating formation of small holes in thin gold or silver films. <i>Review of Scientific Instruments</i> , 2002, 73, 4399-4401.	1.3	13
77	Identification of individual and few layers of WS ₂ using Raman Spectroscopy. , 0, .		1