

# Åron Pekker

## List of Publications by Year in descending order

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42  
papers

523  
citations

623734

14  
h-index

713466

21  
g-index

44  
all docs

44  
docs citations

44  
times ranked

785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Visualization of Ultrastrong Coupling between Luttinger-Liquid Plasmons and Phonon Polaritons. <i>Nano Letters</i> , 2022, 22, 3495-3502.	9.1	2
2	Enhancement of X-ray-Excited Red Luminescence of Chromium-Doped Zinc Gallate via Ultrasmall Silicon Carbide Nanocrystals. <i>Chemistry of Materials</i> , 2021, 33, 2457-2465.	6.7	9
3	Polaritonic Enhancement of Near-Field Scattering of Small Molecules Encapsulated in Boron Nitride Nanotubes: Chemical Reactions in Confined Spaces. <i>ACS Applied Nano Materials</i> , 2021, 4, 4335-4339.	5.0	5
4	The Role of Potassium in the Segregation of MAPb(Br 0.6 I 0.4 ) <sub>3</sub> Mixed-Halide Perovskite in Different Environments. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000335.	2.4	4
5	Signature of Large-Gap Quantum Spin Hall State in the Layered Mineral Jacutingaite. <i>Nano Letters</i> , 2020, 20, 5207-5213.	9.1	33
6	New design and calibration method for a tunable single-grating spatial heterodyne spectrometer. <i>Optics Express</i> , 2020, 28, 22720.	3.4	10
7	Near-field infrared microscopy of nanometer-sized nickel clusters inside single-walled carbon nanotubes. <i>RSC Advances</i> , 2019, 9, 34120-34124.	3.6	3
8	Organometallic chemistry of graphene: Photochemical complexation of graphene with group 6 transition metals. <i>Carbon</i> , 2018, 129, 450-455.	10.3	22
9	Optical detection of charge dynamics in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> /carbon nanotube composites. <i>Nanoscale</i> , 2017, 9, 17781-17787.	5.6	7
10	High-Resolution Nanospectroscopy of Boron Nitride Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700277.	1.5	0
11	Growth of Carbon Nanotubes inside Boron Nitride Nanotubes by Coalescence of Fullerenes: Toward the World's Smallest Coaxial Cable. <i>Small Methods</i> , 2017, 1, 1700184.	8.6	16
12	(Invited) Effect of Covalent Chemistry on the Electronic Structure and Properties of the Carbon Allotropes. <i>ECS Transactions</i> , 2017, 77, 569-579.	0.5	2
13	Nanoscale Characterization of Individual Horizontally Aligned Single-Walled Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700433.	1.5	3
14	Scattering near-field optical microscopy on metallic and semiconducting carbon nanotube bundles in the infrared. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2413-2416.	1.5	6
15	Large-scale cellulose-assisted transfer of graphene toward industrial applications. <i>Carbon</i> , 2016, 110, 286-291.	10.3	38
16	Cloaking by ĩ-electrons in the infrared. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 2457-2460.	1.5	3
17	Networks of Semiconducting SWNTs: Contribution of Midgap Electronic States to the Electrical Transport. <i>Accounts of Chemical Research</i> , 2015, 48, 2270-2279.	15.6	37
18	Breakdown of diameter selectivity in a reductive hydrogenation reaction of single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2015, 618, 214-218.	2.6	2

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19	Effect of Lanthanide Metal Complexation on the Properties and Electronic Structure of Single-Walled Carbon Nanotube Films. ACS Applied Materials & Interfaces, 2015, 7, 28013-28018.	8.0	5
20	Photochemical generation of bis-hexahapto chromium interconnects between the graphene surfaces of single-walled carbon nanotubes. Materials Horizons, 2015, 2, 81-85.	12.2	12
21	Optical and electronic properties of thin films and solutions of functionalized forms of graphene and related carbon materials. Carbon, 2014, 72, 82-88.	10.3	23
22	Hexahapto-lanthanide interconnects between the conjugated surfaces of single-walled carbon nanotubes. Dalton Transactions, 2014, 43, 7379-7382.	3.3	14
23	Bundle versus network conductivity of carbon nanotubes separated by type. European Physical Journal B, 2014, 87, 1.	1.5	5
24	Effect of Atomic Interconnects on Percolation in Single-Walled Carbon Nanotube Thin Film Networks. Nano Letters, 2014, 14, 3930-3937.	9.1	42
25	Effect of first row transition metals on the conductivity of semiconducting single-walled carbon nanotube networks. Applied Physics Letters, 2012, 100, .	3.3	28
26	Effect of Group 6 Transition Metal Coordination on the Conductivity of Graphite Nanoplatelets. Materials Letters, 2012, 80, 171-174.	2.6	20
27	Mapping of Functionalized Regions on Carbon Nanotubes by Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2011, 115, 3229-3235.	3.1	10
28	Pressure studies on fullerene peapods. Physica Status Solidi (B): Basic Research, 2011, 248, 2732-2735.	1.5	4
29	Ferrocene encapsulation in carbon nanotubes: Various methods of filling and investigation. Physica Status Solidi (B): Basic Research, 2011, 248, 2512-2515.	1.5	23
30	On the composition depth profile of electrodeposited Fe-Co-Ni alloys. Electrochimica Acta, 2010, 55, 4734-4741.	5.2	31
31	Electronic Properties of Propylamine-Functionalized Single-Walled Carbon Nanotubes. ChemPhysChem, 2010, 11, 2444-2448.	2.1	8
32	A systematic study of optical and Raman spectra of peapod-based DWNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2843-2846.	1.5	7
33	Investigation of hydrogenated HiPCo nanotubes by infrared spectroscopy. Physica Status Solidi (B): Basic Research, 2010, 247, 2855-2858.	1.5	2
34	Infrared and Raman investigation of carbon nanotube-polyallylamine hybrid systems. Physica Status Solidi (B): Basic Research, 2010, 247, 2884-2886.	1.5	3
35	Method to determine the absorptance of thin films for photovoltaic technology. , 2010, , .		1
36	Diameter selectivity of nanotube sidewall functionalization probed by optical spectroscopy. Physica Status Solidi (B): Basic Research, 2008, 245, 1954-1956.	1.5	6

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37	Wide-range optical spectra of carbon nanotubes: a comparative study. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2229-2232.	1.5	12
38	Characterization of the anisotropic etching of silicon in two-component alkaline solution. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1916-1922.	2.6	14
39	Vibrational Spectra of $C_{60}\cdot C_{8}H_{8}$ and $C_{70}\cdot C_{8}H_{8}$ in the Rotor-stator and Polymer Phases. <i>Journal of Physical Chemistry B</i> , 2007, 111, 12375-12382.	2.6	12
40	Pressure-induced phenomena in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 3982-3985.	1.5	5
41	Calculation of optical constants from carbon nanotube transmission spectra. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3485-3488.	1.5	18
42	Topochemical copolymerization of fullerenes with cubane in their rotor-stator phases. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 2985-2989.	1.5	16