

# Selvakumar Nair

## List of Publications by Year in descending order

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58  
papers

1,568  
citations

331670

21  
h-index

302126

39  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1457  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conductive adhesive based shingled solar cells: Electrical degradation under cyclic loading. <i>Solar Energy Materials and Solar Cells</i> , 2022, 245, 111823.	6.2	2
2	Nonlinear Chemical Sensitivity Enhancement of Nanowires in the Ultralow Concentration Regime. <i>ACS Nano</i> , 2020, 14, 964-973.	14.6	7
3	Accurate modeling of electron-hole binding in CuCl. I. Exciton states. <i>Physical Review B</i> , 2020, 102, .	3.2	4
4	Accurate modeling of electron-hole binding in CuCl. II. Biexciton wavefunction. <i>Physical Review B</i> , 2020, 102, .	3.2	1
5	Measurement and modelling of water ingress into double-glass photovoltaic modules. <i>Progress in Photovoltaics: Research and Applications</i> , 2019, 27, 144-151.	8.1	12
6	Surface State Dynamics Dictating Transport in InAs Nanowires. <i>Nano Letters</i> , 2018, 18, 1387-1395.	9.1	28
7	Mapping the Coulomb Environment in Interference-Quenched Ballistic Nanowires. <i>Nano Letters</i> , 2018, 18, 124-129.	9.1	2
8	Surface Plasmon Polariton Resonance of Gold, Silver, and Copper Studied in the Kretschmann Geometry: Dependence on Wavelength, Angle of Incidence, and Film Thickness. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 124721.	1.6	33
9	Plasmon Modulation Spectroscopy of Noble Metals to Reveal the Distribution of the Fermi Surface Electrons in the Conduction Band. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1315.	2.5	4
10	Surface Properties from Transconductance in Nanoscale Systems. <i>Nano Letters</i> , 2016, 16, 6028-6035.	9.1	9
11	Electron states in semiconductor quantum dots. <i>Journal of Chemical Physics</i> , 2014, 141, 204702.	3.0	9
12	Optical size effect of organic nanocrystals studied by absorption spectroscopy within an integrating sphere. <i>Chemical Physics Letters</i> , 2014, 601, 128-133.	2.6	7
13	Electrical transport in InAs/GaSb superlattice: role of surface states and interface roughness. <i>Semiconductor Science and Technology</i> , 2012, 27, 105025.	2.0	4
14	Probing the Gate-Voltage-Dependent Surface Potential of Individual InAs Nanowires Using Random Telegraph Signals. <i>ACS Nano</i> , 2011, 5, 2191-2199.	14.6	20
15	Effect of light scattering on the transmission spectra of organic nanocrystals. <i>Applied Physics Letters</i> , 2011, 99, 053304.	3.3	9
16	Absorption and emission spectra of molecular excitons in single perylene nanocrystals. <i>Physical Review B</i> , 2011, 84, .	3.2	8
17	Mechanism of IR Photoresponse in Nanopatterned InAs/GaAs Quantum Dot p-i-n Photodiodes. <i>IEEE Journal of Quantum Electronics</i> , 2010, 46, 832-836.	1.9	0
18	Hybrid microspheres with alternating layers of a polymer and metal nanoparticles. <i>Canadian Journal of Chemistry</i> , 2010, 88, 298-304.	1.1	3

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19	Room temperature single nanowire ZnTe photoconductors grown by metal-organic chemical vapor deposition. Applied Physics Letters, 2010, 97, 063510.	3.3	29
20	(Invited) Optical Response of II-VI ZnSe Nanowires. ECS Transactions, 2010, 28, 193-202.	0.5	2
21	Excitation-energy dependence of transient grating spectroscopy in $\beta$ -carotene. Physical Review B, 2009, 80, .	3.2	22
22	Transport and optical response of single nanowires. Journal of Materials Science: Materials in Electronics, 2009, 20, 480-486.	2.2	3
23	Spectrally-resolved transient grating signals from $\beta$ -carotene in benzene solution. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, S34.	0.8	1
24	Polymer Multilayer Microspheres Loaded with Semiconductor Quantum Dots. Advanced Functional Materials, 2008, 18, 1961-1968.	14.9	24
25	Highly confined mode above the light line in a two-dimensional photonic crystal slab. Applied Physics Letters, 2008, 93, .	3.3	14
26	Anisotropic optical response of InP self-assembled quantum dots studied by pump-probe spectroscopy. Physical Review B, 2007, 75, .	3.2	2
27	Nanowire-array-based photonic crystal cavity by finite-difference time-domain calculations. Physical Review B, 2007, 75, .	3.2	22
28	Photon echo study of excitons and excitonic complexes in self-assembled quantum dots. Journal of Luminescence, 2007, 122-123, 730-734.	3.1	9
29	High-temperature ferromagnetism in Mn-doped ZnO nanowires. Applied Physics Letters, 2006, 88, 263101.	3.3	95
30	Biexciton binding energy in parabolic GaAs quantum dots. Physical Review B, 2006, 73, .	3.2	28
31	Nanowire array based photonic crystal devices. , 2005, , .		2
32	Confined modes in finite-size photonic crystals. Physical Review B, 2005, 72, .	3.2	25
33	Nano-optical probing of exciton wave-functions confined in a GaAs quantum dot. Journal of Electron Microscopy, 2004, 53, 193-201.	0.9	14
34	Pseudopotential calculation of the excitonic fine structure of million-atom self-assembled $\text{In}_{1-x}\text{Ga}_x\text{As}$ /GaAs quantum dots. Physical Review B, 2003, 67, .	3.2	316
35	External-field effects on the optical spectra of self-assembled InP quantum dots. Physical Review B, 2002, 66, .	3.2	58
36	Coulomb Effects in the Optical Spectra of Highly Excited Semiconductor Quantum Dots. Nanoscience and Technology, 2002, , 439-456.	1.5	0

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37	Excitonic Optical Nonlinearities and Weakly Correlated Exciton-Pair States. <i>Nanoscience and Technology</i> , 2002, , 389-437.	1.5	0
38	Phonon resonances in photoluminescence spectra of self-assembled quantum dots in an electric field. <i>Physical Review B</i> , 2001, 63, .	3.2	39
39	Hopfield coefficients measured by inverse polariton series. <i>Physical Review B</i> , 2001, 63, .	3.2	11
40	Multi-Exciton States in Semiconductor Quantum Dots. <i>Physica Status Solidi A</i> , 2000, 178, 303-306.	1.7	19
41	Imaging and single dot spectroscopy of InP self-assembled quantum dots. <i>Journal of Luminescence</i> , 2000, 87-89, 40-45.	3.1	24
42	LO phonon resonances in photoluminescence spectra of InP self-assembled quantum dots in electric field. <i>Journal of Luminescence</i> , 2000, 87-89, 441-443.	3.1	5
43	Confinement effects in strain-induced InGaAs/GaAs quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 7, 403-407.	2.7	4
44	Inverse exciton series for observation of bipolariton coupling. <i>Journal of Luminescence</i> , 2000, 87-89, 216-218.	3.1	2
45	Coulomb effects in the optical spectra of highly excited semiconductor quantum dots. <i>Journal of Luminescence</i> , 2000, 87-89, 438-440.	3.1	14
46	Carrier relaxation dynamics in InP quantum dots studied by artificial control of nonradiative losses. <i>Physical Review B</i> , 2000, 61, 15633-15636.	3.2	37
47	Exciton-phonon coupled states in CuCl quantum cubes. <i>Physical Review B</i> , 2000, 63, .	3.2	9
48	Optical anisotropy in self-assembled InP quantum dots. <i>Physical Review B</i> , 1999, 59, R5300-R5303.	3.2	79
49	Inverse exciton series in the optical decay of an excitonic molecule. <i>Physical Review B</i> , 1999, 59, R7837-R7840.	3.2	18
50	LO Phonon Renormalization in Optically Excited CuCl Nanocrystals. <i>Physical Review Letters</i> , 1998, 80, 3105-3108.	7.8	25
51	Biexciton and Triexciton States in Quantum Dots in the Weak Confinement Regime. <i>Physical Review Letters</i> , 1997, 79, 3522-3525.	7.8	39
52	Theory of exciton pair states and their nonlinear optical properties in semiconductor quantum dots. <i>Physical Review B</i> , 1997, 55, 5153-5170.	3.2	81
53	Weakly correlated exciton pair states in large quantum dots. <i>Physical Review B</i> , 1996, 53, R10516-R10519.	3.2	13
54	Electronic structure of semiconductor quantum dots. <i>Physica B: Condensed Matter</i> , 1995, 212, 245-250.	2.7	10

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55	Optical absorption in semiconductor quantum dots: A tight-binding approach. Physical Review B, 1993, 47, 7132-7139.	3.2	106
56	Electron states in a quantum dot in an effective-bond-orbital model. Physical Review B, 1992, 45, 5969-5979.	3.2	53
57	Linear and nonlinear optical response of spherical anisotropic semiconductor microcrystallites. Physical Review B, 1989, 40, 12423-12432.	3.2	11
58	Quantum size effects in spherical semiconductor microcrystals. Physical Review B, 1987, 35, 4098-4101.	3.2	140