

Ramachandram Badugu

List of Publications by Year in descending order

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Fluorescence Cyanide Detection at Physiologically Lethal Levels: A Reduced ICT-Based Signal Transduction. <i>Journal of the American Chemical Society</i> , 2005, 127, 3635-3641.	13.7	382
2	Advances in Surface-Enhanced Fluorescence. <i>Journal of Fluorescence</i> , 2004, 14, 425-441.	2.5	293
3	Metal-Enhanced Fluorescence from CdTe Nanocrystals: A Single-Molecule Fluorescence Study. <i>Journal of the American Chemical Society</i> , 2006, 128, 8998-8999.	13.7	264
4	Noninvasive Continuous Monitoring of Physiological Glucose Using a Monosaccharide-Sensing Contact Lens. <i>Analytical Chemistry</i> , 2004, 76, 610-618.	6.5	142
5	Polyelectrolyte Layer-by-Layer Assembly To Control the Distance between Fluorophores and Plasmonic Nanostructures. <i>Chemistry of Materials</i> , 2007, 19, 5902-5909.	6.7	133
6	Distance-Dependent Metal-Enhanced Fluorescence from Langmuir-Blodgett Monolayers of Alkyl-NBD Derivatives on Silver Island Films. <i>Langmuir</i> , 2006, 22, 8374-8378.	3.5	120
7	Cyanide-sensitive fluorescent probes. <i>Dyes and Pigments</i> , 2005, 64, 49-55.	3.7	110
8	A Glucose Sensing Contact Lens: A Non-Invasive Technique for Continuous Physiological Glucose Monitoring. <i>Journal of Fluorescence</i> , 2003, 13, 371-374.	2.5	102
9	A glucose-sensing contact lens: from bench top to patient. <i>Current Opinion in Biotechnology</i> , 2005, 16, 100-107.	6.6	93
10	Ophthalmic Glucose Monitoring Using Disposable Contact Lenses—A Review. <i>Journal of Fluorescence</i> , 2004, 14, 617-633.	2.5	83
11	Excitation and emission wavelength ratiometric cyanide-sensitive probes for physiological sensing. <i>Analytical Biochemistry</i> , 2004, 327, 82-90.	2.4	81
12	Directing Fluorescence with Plasmonic and Photonic Structures. <i>Accounts of Chemical Research</i> , 2015, 48, 2171-2180.	15.6	79
13	Boronic acid fluorescent sensors for monosaccharide signaling based on the 6-methoxyquinolinium heterocyclic nucleus: progress toward noninvasive and continuous glucose monitoring. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 113-119.	3.0	76
14	Fluorescence sensors for monosaccharides based on the 6-methylquinolinium nucleus and boronic acid moiety: potential application to ophthalmic diagnostics. <i>Talanta</i> , 2005, 65, 762-768.	5.5	76
15	Radiative decay engineering 6: Fluorescence on one-dimensional photonic crystals. <i>Analytical Biochemistry</i> , 2013, 442, 83-96.	2.4	71
16	A wavelength-ratiometric fluoride-sensitive probe based on the quinolinium nucleus and boronic acid moiety. <i>Sensors and Actuators B: Chemical</i> , 2005, 104, 103-110.	7.8	66
17	Fluorescence intensity and lifetime-based cyanide sensitive probes for physiological safeguard. <i>Analytica Chimica Acta</i> , 2004, 522, 9-17.	5.4	63
18	Radiative decay engineering 7: Tamm state-coupled emission using a hybrid plasmonic-photonic structure. <i>Analytical Biochemistry</i> , 2014, 445, 1-13.	2.4	58

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19	Sulforhodamine Adsorbed Langmuir-Blodgett Layers on Silver Island Films: Effect of Probe Distance on the Metal-Enhanced Fluorescence. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7091-7097.	3.1	56
20	Metal-Enhanced Fluorescence from Plastic Substrates. <i>Journal of Fluorescence</i> , 2005, 15, 99-104.	2.5	54
21	Fluorescence Sensor Design for Transition Metal Ions: The Role of the PIET Interaction Efficiency. <i>Journal of Fluorescence</i> , 2005, 15, 71-83.	2.5	53
22	Fluorescence Quenching of CdTe Nanocrystals by Bound Gold Nanoparticles in Aqueous Solution. <i>Plasmonics</i> , 2008, 3, 3-11.	3.4	52
23	Diffraction-Free Bloch Surface Waves. <i>ACS Nano</i> , 2017, 11, 5383-5390.	14.6	52
24	Bloch surface waves confined in one dimension with a single polymeric nanofibre. <i>Nature Communications</i> , 2017, 8, 14330.	12.8	49
25	Extending the Propagation Distance of a Silver Nanowire Plasmonic Waveguide with a Dielectric Multilayer Substrate. <i>Nano Letters</i> , 2018, 18, 1152-1158.	9.1	47
26	Contact lens to measure individual ion concentrations in tears and applications to dry eye disease. <i>Analytical Biochemistry</i> , 2018, 542, 84-94.	2.4	46
27	Silver-Gold Nanocomposite Substrates for Metal-Enhanced Fluorescence: Ensemble and Single-Molecule Spectroscopic Studies. <i>Journal of Physical Chemistry C</i> , 2012, 116, 5042-5048.	3.1	45
28	Bloch Surface Wave-Coupled Emission at Ultraviolet Wavelengths. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28727-28734.	3.1	41
29	Ophthalmic glucose sensing: a novel monosaccharide sensing disposable and colorless contact lens. <i>Analyst</i> , 2004, 129, 516.	3.5	40
30	Selective and sensitive detection of MiRNA-21 based on gold-nanorod functionalized polydiacetylene microtube waveguide. <i>Biosensors and Bioelectronics</i> , 2016, 85, 198-204.	10.1	40
31	Anion Sensing Using Quinolinium Based Boronic Acid Probes. <i>Current Analytical Chemistry</i> , 2005, 1, 157-170.	1.2	40
32	Glucose-sensitive silicone hydrogel contact lens toward tear glucose monitoring. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	39
33	Back focal plane imaging of directional emission from dye molecules coupled to one-dimensional photonic crystals. <i>Nanotechnology</i> , 2014, 25, 145202.	2.6	38
34	Tamm plasmon- and surface plasmon-coupled emission from hybrid plasmonic photonic structures. <i>Optica</i> , 2014, 1, 407.	9.3	36
35	Metal-Dielectric Waveguides for High-Efficiency Coupled Emission. <i>ACS Photonics</i> , 2015, 2, 810-815.	6.6	33
36	Development and application of an excitation ratiometric optical pH sensor for bioprocess monitoring. <i>Biotechnology Progress</i> , 2008, 24, 1393-1401.	2.6	32

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37	Tuning Fluorescence Direction with Plasmonic Metal-Dielectric-Metal Substrates. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 227-232.	4.6	31
38	Wavelength-Ratiometric Probes for the Selective Detection of Fluoride Based on the 6-Aminoquinolinium Nucleus and Boronic Acid Moiety. <i>Journal of Fluorescence</i> , 2004, 14, 693-703.	2.5	30
39	Fabrication and Characterization of Planar Plasmonic Substrates with High Fluorescence Enhancement. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21142-21149.	3.1	30
40	Wavelength-ratiometric near-physiological pH sensors based on 6-aminoquinolinium boronic acid probes. <i>Talanta</i> , 2005, 66, 569-574.	5.5	25
41	Effect of metal film thickness on Tamm plasmon-coupled emission. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 25523-25530.	2.8	25
42	Langmuir-Blodgett Monolayers of Long-Chain NBD Derivatives on Silver Island Films: Well-Organized Probe Layer for the Metal-Enhanced Fluorescence Studies. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13499-13507.	2.6	23
43	A wavelength-ratiometric pH sensitive probe based on the boronic acid moiety and suppressed sugar response. <i>Dyes and Pigments</i> , 2004, 61, 227-234.	3.7	22
44	Steering Fluorescence Emission with Metal-Dielectric-Metal Structures of Au, Ag, and Al. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15798-15807.	3.1	22
45	Tamm State-Coupled Emission: Effect of Probe Location and Emission Wavelength. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21558-21571.	3.1	21
46	Large Fluorescence Enhancements of Fluorophore Ensembles with Multilayer Plasmonic Substrates: Comparison of Theory and Experimental Results. <i>Journal of Physical Chemistry C</i> , 2012, 116, 21563-21571.	3.1	20
47	Wavelength-ratiometric and colorimetric probes for glucose determination. <i>Dyes and Pigments</i> , 2006, 68, 159-163.	3.7	18
48	Back focal plane imaging of Tamm plasmons and their coupled emission. <i>Laser and Photonics Reviews</i> , 2014, 8, 933-940.	8.7	18
49	Fluorescence Spectroscopy with Metal-Dielectric Waveguides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16245-16255.	3.1	18
50	Selectable Surface and Bulk Fluorescence Imaging with Plasmon-Coupled Waveguides. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22131-22136.	3.1	17
51	Silver Nanowires for Reconfigurable Bloch Surface Waves. <i>ACS Nano</i> , 2017, 11, 10446-10451.	14.6	17
52	Bloch surface wave-coupled emission from quantum dots by ensemble and single molecule spectroscopy. <i>RSC Advances</i> , 2015, 5, 54403-54411.	3.6	16
53	Surface-plasmon induced polarized emission from Eu(III) - a class of luminescent lanthanide ions. <i>Chemical Communications</i> , 2014, 50, 9010.	4.1	15
54	Coupling of Fluorophores in Single Nanoapertures with Tamm Plasmon Structures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 1413-1420.	3.1	15

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55	Active Polymer Microfiber with Controlled Polarization Sensitivity. <i>Advanced Optical Materials</i> , 2016, 4, 371-377.	7.3	13
56	Fluorescent contact lens for continuous non-invasive measurements of sodium and chloride ion concentrations in tears. <i>Analytical Biochemistry</i> , 2020, 608, 113902.	2.4	12
57	Directional Emission from Metal-Dielectric-Metal Structures: Effect of Mixed Metal Layers, Dye Location, and Dielectric Thickness. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3302-3311.	3.1	11
58	Metal-Dielectric Waveguides for High Efficiency Fluorescence Imaging. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24081-24085.	3.1	11
59	Manipulating Propagation Constants of Silver Nanowire Plasmonic Waveguide Modes Using a Dielectric Multilayer Substrate. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 144.	2.5	10
60	Nanoscaled ZnO films used as enhanced substrates for fluorescence detection of dyes. <i>Chinese Physics B</i> , 2012, 21, 037803.	1.4	9
61	Radiative decay engineering 8: Coupled emission microscopy for lens-free high-throughput fluorescence detection. <i>Analytical Biochemistry</i> , 2017, 531, 20-36.	2.4	9
62	Sodium-sensitive contact lens for diagnostics of ocular pathologies. <i>Sensors and Actuators B: Chemical</i> , 2021, 331, 129434.	7.8	9
63	Polymer-loaded propagating modes on a one-dimensional photonic crystal. <i>Applied Physics Letters</i> , 2014, 104, 061115.	3.3	7
64	Fluorophore Coupling to Internal Modes of Bragg Gratings. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22743-22752.	3.1	6
65	Extracting surface wave-coupled emission with subsurface dielectric gratings. <i>Optics Letters</i> , 2014, 39, 4341.	3.3	5
66	Fluorescence coupling to internal modes of 1D photonic crystals characterized by back focal plane imaging. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 035001.	2.2	5
67	Development of Efficient Fluorosensors for the Transition Metal Ions by Tuning of Photoinduced Intramolecular Electron Transfer (PIET) Communication between the Components. <i>Chemistry Letters</i> , 2002, 31, 52-53.	1.3	3
68	Out-of-focal plane imaging by leakage radiation microscopy. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 095004.	2.2	3
69	Editorial: Progress in Glucose Sensing. <i>Journal of Fluorescence</i> , 2004, 14, 475.	2.5	2
70	Ophthalmic Glucose Monitoring Using Disposable Contact Lenses. , 2005, 2005, 363-397.		2
71	Celebrating 15 years of publishing excellence: No. 3. <i>Journal of Fluorescence</i> , 2006, 16, 1-1.	2.5	2
72	Imaging optical fields below metal films and metal-dielectric waveguides by a scanning microscope. <i>Journal of Applied Physics</i> , 2017, 122, 113101.	2.5	2

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73	Metal-Ion Induced Intramolecular Charge-Transfer Fluorescence of p-Pentamethylsilylacetophenone. Chemistry Letters, 2002, 31, 242-243.	1.3	1
74	Conversion of isotropic fluorescence into a long-range non-diverging beam. Methods and Applications in Fluorescence, 2018, 6, 024003.	2.3	1
75	Converting the guided modes of Bloch surface waves with the surface pattern. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 1579.	2.1	1
76	Advances in Anion Sensing. Journal of Fluorescence, 2004, 14, 665.	2.5	0
77	Analytical techniques. Current Opinion in Chemical Biology, 2005, 9, 488.	6.1	0