Jeffrey N Anker

List of Publications by Year
in descending order

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67 papers	9,071 citations	172386 29 h-index	118793 62 g-index
77 all docs	77 docs citations	77 times ranked	14092 citing authors

#	Article	IF	Citations
1	Biosensing with plasmonic nanosensors. Nature Materials, 2008, 7, 442-453.	13.3	6,152
2	Gas Sensing with High-Resolution Localized Surface Plasmon Resonance Spectroscopy. Journal of the American Chemical Society, 2010, 132, 17358-17359.	6.6	205
3	Surface-Enhanced Raman Spectroscopy of Benzenethiol Adsorbed from the Gas Phase onto Silver Film over Nanosphere Surfaces: Determination of the Sticking Probability and Detection Limit Time. Journal of Physical Chemistry A, 2009, 113, 4581-4586.	1.1	141
4	Reactive oxygen species generation by copper(II) oxide nanoparticles determined by DNA damage assays and EPR spectroscopy. Nanotoxicology, 2017, 11, 278-288.	1.6	140
5	Magnetically modulated optical nanoprobes. Applied Physics Letters, 2003, 82, 1102-1104.	1.5	128
6	Advances in functional X-ray imaging techniques and contrast agents. Physical Chemistry Chemical Physics, 2012, 14, 13469.	1.3	124
7	Biosensing with plasmonic nanosensors. , 2009, , 308-319.		120
8	Surface-Enhanced Raman Scattering Detection of pH with Silica-Encapsulated 4-Mercaptobenzoic Acid-Functionalized Silver Nanoparticles. Analytical Chemistry, 2012, 84, 8013-8019.	3.2	115
9	Cationic polymer for selective removal of GenX and short-chain PFAS from surface waters and wastewaters at ng/L levels. Water Research, 2019, 163, 114874.	5.3	115
10	Metal-Capped Brownian and Magnetically Modulated Optical Nanoprobes (MOONs):Â Micromechanics in Chemical and Biological Microenvironmentsâ€. Journal of Physical Chemistry B, 2004, 108, 10408-10414.	1.2	114
11	Monitoring pH-Triggered Drug Release from Radioluminescent Nanocapsules with X-ray Excited Optical Luminescence. ACS Nano, 2013, 7, 1178-1187.	7.3	110
12	A Conformation- and Ion-Sensitive Plasmonic Biosensor. Nano Letters, 2011, 11, 1098-1105.	4.5	109
13	One-pot hydrothermal synthesis of silver nanowires via citrate reduction. Journal of Colloid and Interface Science, 2010, 352, 285-291.	5.0	106
14	A Calcium-Modulated Plasmonic Switch. Journal of the American Chemical Society, 2008, 130, 5836-5837.	6.6	95
15	Sudden Breakdown in Linear Response of a Rotationally Driven Magnetic Microparticle and Application to Physical and Chemical Microsensingâ€. Journal of Physical Chemistry B, 2006, 110, 18958-18964.	1.2	87
16	Iron-Loaded Magnetic Nanocapsules for pH-Triggered Drug Release and MRI Imaging. Chemistry of Materials, 2014, 26, 2105-2112.	3.2	78
17	Brownian modulated optical nanoprobes. Applied Physics Letters, 2004, 84, 154-156.	1.5	75
18	Effects of Two Different Catheter Ablation Techniques on Spectral Characteristics of Atrial Fibrillation. Journal of the American College of Cardiology, 2006, 48, 340-348.	1.2	74

#	Article	IF	Citations
19	Microrheology with modulated optical nanoprobes (MOONs). Journal of Magnetism and Magnetic Materials, 2005, 293, 663-670.	1.0	73
20	Magnetic and optical properties of multifunctional coreâ€“shell radioluminescence nanoparticles. Journal of Materials Chemistry, 2012, 22, 12802.	6.7	71
21	Aspherical magnetically modulated optical nanoprobes (MagMOONs). Journal of Applied Physics, 2003, 93, 6698-6700.	1.1	67
22	Synthesis of Brightly PEGylated Luminescent Magnetic Upconversion Nanophosphors for Deep Tissue and Dual MRI Imaging. Small, 2014, 10, 160-168.	5.2	61
23	Magnetically-modulated optical nanoprobes (MagMOONs) and systems. Journal of Magnetism and Magnetic Materials, 2005, 293, 655-662.	1.0	51
24	Development of Luminescent pH Sensor Films for Monitoring Bacterial Growth Through Tissue. Advanced Healthcare Materials, 2014, 3, 197-204.	3.9	48
25	Detection and Identification of Bioanalytes with High Resolution LSPR Spectroscopy and MALDI Mass Spectrometry. Journal of Physical Chemistry C, 2009, 113, 5891-5894.	1.5	46
26	Nanotechnologies for Noninvasive Measurement of Drug Release. Molecular Pharmaceutics, 2014, 11, 24-39.	2.3	43
27	Synthesis and Characterization of Silica-Embedded Iron Oxide Nanoparticles for Magnetic Resonance Imaging. Journal of Nanoscience and Nanotechnology, 2004, 4, 72-76.	0.9	40
28	Multifunctional Yolkâ€inâ€Shell Nanoparticles for pHâ€triggered Drug Release and Imaging. Small, 2014, 10, 3364-3370.	5.2	33
29	Tuning Localized Surface Plasmon Resonance Wavelengths of Silver Nanoparticles by Mechanical Deformation. Journal of Physical Chemistry C, 2016, 120, 20886-20895.	1.5	32
30	Optical imaging in tissue with X-ray excited luminescent sensors. Analyst, The, 2011, 136, 3438.	1.7	31
31	High-Resolution Chemical Imaging through Tissue with an X-ray Scintillator Sensor. Analytical Chemistry, 2011, 83, 5045-5049.	3.2	27
32	Magnetically controlled sensor swarms. Sensors and Actuators B: Chemical, 2007, 121, 83-92.	4.0	26
33	Magnetically modulated optical nanoprobes (MagMOONs) for detection and measurement of biologically important ions against the natural background fluorescence of intracellular environments. Journal of Magnetism and Magnetic Materials, 2005, 293, 715-724.	1.0	20
34	Magnetic microdrill as a modulated fluorescent pH sensor. Journal of Magnetism and Magnetic Materials, 2005, 293, 696-701.	1.0	20
35	Synthetic and spectroscopic studies of vanadate glaserites I: Upconversion studies of doubly co-doped (Er, Tm, or Ho):Yb:K3Y(VO4)2. Journal of Solid State Chemistry, 2015, 226, 312-319.	1.4	19
36	Synovial Fluid pH Sensor for Early Detection of Prosthetic Hip Infections. Advanced Functional Materials, 2021, 31, 2104124.	7.8	19

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37	Hydrothermal Chemistry, Structures, and Luminescence Studies of Alkali Hafnium Fluorides. Inorganic Chemistry, 2013, 52, 237-244.	1.9	18
38	Implantable strain sensor to monitor fracture healing with standard radiography. Scientific Reports, 2017, 7, 1489.	1.6	18
39	An implanted pH sensor read using radiography. Analyst, The, 2019, 144, 2984-2993.	1.7	18
40	Polymerâ€Coated Radioluminescent Nanoparticles for Quantitative Imaging of Drug Delivery. Advanced Functional Materials, 2014, 24, 5815-5823.	7.8	17
41	Bright X-ray and up-conversion nanophosphors annealed using encapsulated sintering agents for bioimaging applications. Journal of Materials Chemistry B, 2017, 5, 5412-5424.	2.9	17
42	Xâ€Ray Excited Luminescence Chemical Imaging of Bacterial Growth on Surfaces Implanted in Tissue. Advanced Healthcare Materials, 2015, 4, 903-910.	3.9	15
43	One-Pot Hydrothermal Synthesis of Tb^{III}₁₃(GeO₄)₆O₇(OH) and K₂Tb^{IV}Ge₂O₇: Preparation of a Stable Terbium(4+) Complex. Inorganic Chemistry, 2017, 56, 6044-6047.	1.9	15
44	Plasmonic Silver Nanobelts via Citrate Reduction in the Presence of HCl and their Orientation-Dependent Scattering Properties. Journal of Physical Chemistry Letters, 2011, 2, 1742-1746.	2.1	14
45	Noninvasively Imaging pH at the Surface of Implanted Orthopedic Devices with X-ray Excited Luminescence Chemical Imaging. ACS Sensors, 2019, 4, 2367-2374.	4.0	13
46	Magnetically Assisted and Accelerated Self-Assembly of Strawberry-like Nano/Microparticlesâ€. Journal of Physical Chemistry B, 2006, 110, 19929-19934.	1.2	12
47	Detecting de-gelation through tissue using magnetically modulated optical nanoprobes (MagMOONs). Sensors and Actuators B: Chemical, 2014, 205, 313-321.	4.0	12
48	Optical manipulation of metal-silica hybrid nanoparticles. , 2004, 5514, 502.		11
49	Polyphenol effects on CuO-nanoparticle-mediated DNA damage, reactive oxygen species generation, and fibroblast cell death. Toxicology in Vitro, 2022, 78, 105252.	1.1	8
50	Theranostic nanotechnologies: moving beyond imaging drug localization?. Therapeutic Delivery, 2014, 5, 97-100.	1.2	7
51	Conformal Coating of Orthopedic Plates with X-ray Scintillators and pH Indicators for X-ray Excited Luminescence Chemical Imaging through Tissue. ACS Applied Materials & Interfaces, 2020, 12, 52343-52353.	4.0	7
52	Focused x-ray luminescence imaging system for small animals based on a rotary gantry. Journal of Biomedical Optics, 2021, 26, .	1.4	7
53	Contrast agents for x-ray luminescence computed tomography. Applied Optics, 2021, 60, 6769.	0.9	7
54	Characterization and Applications of Modulated Optical Nanoprobes (MOONs). Materials Research Society Symposia Proceedings, 2003, 790, 1.	0.1	6

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55	Magnetically guiding and orienting integrated chemical sensors. Journal of Magnetism and Magnetic Materials, 2014, 362, 229-234.	1.0	5
56	In situ preparation of goldâ€“polyester nanoparticles for biomedical imaging. Biomaterials Science, 2020, 8, 3032-3043.	2.6	5
57	X-ray excited luminescent chemical imaging (XELCI) for non-invasive imaging of implant infections. Proceedings of SPIE, 2017, 10081, .	0.8	3
58	X-ray excited luminescence spectroscopy and imaging with NaGdF₄:Eu and Tb. RSC Advances, 2021, 11, 31717-31726.	1.7	3
59	Measuring Orthopedic Plate Strain to Track Bone Healing Using a Fluidic Sensor Read via Plain Radiography. IEEE Transactions on Biomedical Engineering, 2022, 69, 278-285.	2.5	3
60	Radioluminescence Imaging of Drug Elution from Biomedical Implants. Advanced Functional Materials, 2022, 32, 2106508.	7.8	3
61	X-ray luminescence imaging for small animals. , 2020, 11224, .		3
62	Fabrication of Nanoparticles and Microspheres with Uniform Magnetic Half-Shells. Materials Research Society Symposia Proceedings, 2005, 899, 1.	0.1	2
63	Fast and Inexpensive Separation of Bright Phosphor Particles from Commercial Sources by Gravitational and Centrifugal Sedimentation for Deep Tissue X-ray Luminescence Imaging. Photonics, 2022, 9, 347.	0.9	2
64	Luminescent Spectral Rulers for Noninvasive Displacement Measurement through Tissue. ACS Sensors, 2020, 5, 711-718.	4.0	1
65	Upconversion Spectral Rulers for Transcutaneous Displacement Measurements. Sensors, 2021, 21, 3554.	2.1	1
66	Impressively printing patterns of gold and silver nanoparticles. Nano Select, 2021, 2, 2407-2418.	1.9	0
67	Development of an optically-based tension-indicating implanted orthopedic screw with a luminescent spectral ruler. Proceedings of SPIE, 2017, , .	0.8	0