Sharad Gupta

List of Publications by Year
in descending order

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66	946	516561 16	501076 28
papers	citations	h-index	g-index

66	66	66	1309
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effects of cholesterol on nano-mechanical properties of the living cell plasma membrane. Soft Matter, 2012, 8, 8350.	1.2	78
2	Oncotargeting by Vesicular Stomatitis Virus (VSV): Advances in Cancer Therapy. Viruses, 2018, 10, 90.	1.5	76
3	Non-invasive characterization of structure and morphology of silk fibroin biomaterials using non-linear microscopy. Biomaterials, 2008, 29, 2015-2024.	5.7	72
4	Recovery of turbidity free fluorescence from measured fluorescence: an experimental approach. Optics Express, 2003, 11, 3320.	1.7	59
5	Coatings of Polyethylene Glycol for Suppressing Adhesion between Solid Microspheres and Flat Surfaces. Langmuir, 2012, 28, 5059-5069.	1.6	43
6	Virus-mimicking nano-constructs as a contrast agent for near infrared photoacoustic imaging. Nanoscale, 2013, 5, 1772.	2.8	41
7	Depolarization of light in a multiply scattering medium: Effect of the refractive index of a scatterer. Physical Review E, 2004, 70, 066607.	0.8	39
8	Effect of polyethylene glycol coatings on uptake of indocyanine green loaded nanocapsules by human spleen macrophages in vitro. Journal of Biomedical Optics, 2011, 16, 051303.	1.4	38
9	Effects of nanoencapsulation and PEGylation on biodistribution of indocyanine green in healthy mice: quantitative fluorescence imaging and analysis of organs. International Journal of Nanomedicine, 2013, 8, 1609.	3.3	36
10	Modulation of Steroidogenic Pathway in Rat Granulosa Cells with Subclinical Cd Exposure and Insulin Resistance: An Impact on Female Fertility. BioMed Research International, 2014, 2014, 1-13.	0.9	36
11	Prostate Stem Cells in the Development of Benign Prostate Hyperplasia and Prostate Cancer: Emerging Role and Concepts. BioMed Research International, 2013, 2013, 1-10.	0.9	33
12	Wavelet transform of breast tissue fluorescence spectra: a technique for diagnosis of tumors. IEEE Journal of Selected Topics in Quantum Electronics, 2003, 9, 154-161.	1.9	30
13	Influence of size parameter and refractive index of the scatterer on polarization-gated optical imaging through turbid media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2007, 24, 1704.	0.8	28
14	Biochemical and molecular effects of gestational and lactational coexposure to lead and cadmium on ovarian steroidogenesis are associated with oxidative stress in f1 generation rats. Journal of Biochemical and Molecular Toxicology, 2010, 24, 384-394.	1.4	20
15	Amyloid Histology Stain for Rapid Bacterial Endospore Imaging. Journal of Clinical Microbiology, 2011, 49, 2966-2975.	1.8	18
16	Twoâ€photon excitation and direct emission from S₂ state of U.S. Food and Drug Administration approved nearâ€infrared dye: Application of antiâ€Kasha's rule for twoâ€photon fluorescence imaging. Journal of Biophotonics, 2019, 12, e201800086.	1.1	18
17	Pimenta dioica Mediated Biosynthesis of Gold Nanoparticles and Evaluation of Its Potential for Theranostic Applications. ChemistrySelect, 2020, 5, 7901-7908.	0.7	18
18	Wavelet-based characterization of spectral fluctuations in normal, benign, and cancerous human breast tissues. Journal of Biomedical Optics, 2005, 10, 054012.	1.4	16

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19	Microfluidic Space-Domain Time-Resolved Emission Spectroscopy of Terbium(III) and Europium(III) Chelates with Pyridine-2,6-Dicarboxylate. Analytical Chemistry, 2013, 85, 4567-4577.	3.2	16
20	Simultaneous extraction of optical transport parameters and intrinsic fluorescence of tissue mimicking model media using a spatially resolved fluorescence technique. Applied Optics, 2006, 45, 7529.	2.1	15
21	Optical-Property-Enhancing Novel Near-Infrared Active Niosome Nanoformulation for Deep-Tissue Bioimaging. ACS Omega, 2021, 6, 22616-22624.	1.6	15
22	Green synthesis of near-infrared absorbing eugenate capped iron oxide nanoparticles for photothermal application. Nanotechnology, 2020, 31, 095705.	1.3	13
23	Application of continuous-wave photoacoustic sensing to red blood cell morphology. Lasers in Medical Science, 2019, 34, 487-494.	1.0	11
24	Dual engineered gold nanoparticle based synergistic prophylaxis delivery system for HIV/AIDS. Medical Hypotheses, 2021, 150, 110576.	0.8	11
25	Noninvasive identification of subcellular organization and nuclear morphology features associated with leukemic cells using light-scattering spectroscopy. Journal of Biomedical Optics, 2011, 16, 037007.	1.4	10
26	The effect of nanoencapsulation of ICG on two-photon bioimaging. RSC Advances, 2019, 9, 18703-18712.	1.7	10
27	Near-infrared active superparamagnetic iron oxide nanoparticles for magnetomotive optical coherence tomography imaging and magnetic hyperthermia therapeutic applications. Journal of Magnetism and Magnetic Materials, 2022, 549, 169038.	1.0	10
28	Effect of Doxorubicin on the Near-Infrared Optical Properties of Indocyanine Green. ACS Omega, 2021, 6, 34842-34849.	1.6	10
29	Non-invasive optical characterization of biomaterial mineralization. Biomaterials, 2008, 29, 2359-2369.	5.7	9
30	A single low dose of cadmium exposure induces benign prostate hyperplasia like condition in rat: A novel benign prostate hyperplasia rodent model. Experimental Biology and Medicine, 2014, 239, 829-841.	1.1	9
31	A novel minimal in vitro system for analyzing HIV-1 Gag-mediated budding. Journal of Biological Physics, 2015, 41, 135-149.	0.7	9
32	Association of Cadmium and Lead with Antioxidant Status and Incidence of Benign Prostatic Hyperplasia in Patients of Western India. Biological Trace Element Research, 2013, 152, 316-326.	1.9	8
33	Protease Responsive Essential Amino-Acid Based Nanocarriers for Near-Infrared Imaging. Scientific Reports, 2019, 9, 20334.	1.6	8
34	Polymerically modified superparamagnetic iron oxide nanoparticles as a multi-model molecular probe for functionalized optical coherence tomography. Optics and Laser Technology, 2021, 141, 107108.	2.2	8
35	Basal Expression of Pluripotency-Associated Genes Can Contribute to Stemness Property and Differentiation Potential. Stem Cells and Development, 2013, 22, 1802-1817.	1.1	7
36	Quantitative Differentiation of Pneumonia from Normal Lungs: Diagnostic Assessment Using Photoacoustic Spectral Response. Applied Spectroscopy, 2017, 71, 2532-2537.	1.2	7

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37	Characteristic Spectral Features of the Polarized Fluorescence of Human Breast Cancer in the Wavelet Domain. Applied Spectroscopy, 2012, 66, 820-827.	1.2	6
38	Nanoliposomal Nitroglycerin Exerts Potent Anti-Inflammatory Effects. Scientific Reports, 2015, 5, 16258.	1.6	6
39	Nanotrap-Enhanced Raman Spectroscopy: An Efficient Technique for Trace Detection of Bioanalytes. Analytical Chemistry, 2019, 91, 3555-3560.	3.2	6
40	Fluorescence photobleaching of urine for improved signal to noise ratio of the Raman signal â€“ An exploratory study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119144.	2.0	6
41	Fluorescence photo-bleaching of urine and its applicability in oral cancer diagnosis. Photodiagnosis and Photodynamic Therapy, 2019, 28, 18-24.	1.3	5
42	Characterization of cancer and normal tissue fluorescence through wavelet transform and singular value decomposition. Proceedings of SPIE, 2008, , .	0.8	4
43	Experimental and theoretical investigation of fluorescence photobleaching and recovery in human breast tissue and tissue phantoms. Applied Optics, 2004, 43, 1044.	2.1	3
44	Optical characterization of the nanoscale organization of mineral deposits on silk films. Applied Optics, 2009, 48, D45.	2.1	3
45	Simple and Robust in vivo and in vitro Approach for Studying Virus Assembly. Journal of Visualized Experiments, 2012, , .	0.2	3
46	Fusogenic Viral Protein-Based Near-Infrared Active Nanocarriers for Biomedical Imaging. ACS Biomaterials Science and Engineering, 2021, 7, 3351-3360.	2.6	3
47	Formulation of Cabotegravir Loaded Gold Nanoparticles: Optimization, Characterization to In-Vitro Cytotoxicity Study. Journal of Cluster Science, 2022, , 1-13.	1.7	3
48	Recovery of intrinsic fluorescence of tissue mimicking model media and human breast tissues from spatially resolved fluorescence and simultaneous evaluation of optical transport parameters. , 2006, , .		2
49	Cellular uptake of polymeric nanocapsules loaded with ICG by human blood monocytes and human spleen macrophages. , 2010, , .		2
50	Uptake of PEGylated indocyanine green loaded nanocapsules by cells of reticuloendothelial system. , 2011, , .		2
51	Effect of capsid proteins to ICG mass ratio on fluorescent quantum yield of virus-resembling optical nano-materials. , 2012, , .		2
52	Drop-coating deposition Raman spectroscopy for quantitative detection of urinary creatinine: a feasibility study. Laser Physics, 2020, 30, 085602.	0.6	2
53	Differentiating human cervical dysplastic and normal tissue through wavelet domain characterization of intrinsic fluorescence. Proceedings of SPIE, 2011, , .	0.8	1
54	Effect of nano-encapsulation on photophysical properties of ICG. Proceedings of SPIE, 2011, , .	0.8	1

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55	Role of Doxorubicin on the Loading Efficiency of ICG within Silk Fibroin Nanoparticles. ACS Biomaterials Science and Engineering, 2022, 8, 3054-3065.	2.6	1
56	<title>Fluorescence photobleaching and recovery of human breast tissues and tissue phantoms</title>. , 2002, 4613, 41.		0
57	<title>Molecular information from fluorescence spectroscopic investigations of breast tissues and tissue phantoms</title>. , 2002, 4613, 71.		0
58	Print-and-Peel Microfabrication for Space-Domain Time-Resolved Emission Measurements on a Chip. , 2010, , .		0
59	Viscoelastic Properties of Plasma Membranes Varies with Cholesterol Level. Biophysical Journal, 2010, 98, 668a-669a.	0.2	0
60	Plant virus-resembling optical nano-materials conjugated with anti-EGFR for targeted cancer imaging. , 2012, , .		0
61	Fluorescence interference contrast based approach to study real time interaction of melittin with plasma membranes. Proceedings of SPIE, 2014, , .	0.8	0
62	Non-invasive characterization of mineralized silk films using light scattering. , 2008, , .		0
63	Near Infrared Activated Polymer Nanoparticles for Photoacoustic Imaging. , 2016, , .		0
64	Enhancement of physico-chemical properties of the hydrophobic anticancer molecule following nanoencapsulation. , 2018, , .		0
65	Enzyme-responsive nanocontainer for small molecule delivery. , 2020, , 217-227.		0
66	S2 state optical property enhancement of indocyanine green due to optical exposure. , 2020, , .		0