

# Raoul Kopelman

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

252 papers	14,060 citations	62 h-index	112 g-index
265 ext. papers	14,925 ext. citations	5.7 avg, IF	6.32 L-index

#	Paper	IF	Citations
252	Cell-morphodynamic phenotype classification with application to cancer metastasis using cell magnetorotation and machine-learning. <i>PLoS ONE</i> , <b>2021</b> , 16, e0259462	3.7	0
251	Au Nanobead Chains with Tunable Plasmon Resonance and Intense Optical Scattering: Scalable Green Synthesis, Monte Carlo Assembly Kinetics, Discrete Dipole Approximation Modeling, and Nano-Biophotonic Application. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 2913-2928	9.6	0
250	Intracellular detection of singlet oxygen using fluorescent nanosensors. <i>Analyst, The</i> , <b>2021</b> , 146, 3933-3941	3.4	2
249	Combining Active Carbonic Anhydrase with Nanogels: Enzyme Protection and Zinc Sensing. <i>International Journal of Nanomedicine</i> , <b>2021</b> , 16, 6645-6660	7.3	0
248	photoacoustic potassium imaging of the tumor microenvironment. <i>Biomedical Optics Express</i> , <b>2020</b> , 11, 3507-3522	3.5	4
247	Synthesis and Optical Properties of Two-Photon-Absorbing Au <sub>25</sub> (Captopril) <sub>18</sub> -Embedded Polyacrylamide Nanoparticles for Cancer Therapy. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 1420-1430	5.6	11
246	A simple model for charged particle aggregation and polarization. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>2019</b> , 528, 121433	3.3	1
245	Photoacoustic Lifetime Based Oxygen Imaging with Tumor Targeted G2 Polyacrylamide Nanosonophores. <i>ACS Nano</i> , <b>2019</b> , 13, 14024-14032	16.7	12
244	Chemical Imaging in Vivo: Photoacoustic-Based 4-Dimensional Chemical Analysis. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 2561-2569	7.8	7
243	Transient Triplet Differential (TTD) Method for Background Free Photoacoustic Imaging. <i>Scientific Reports</i> , <b>2018</b> , 8, 9290	4.9	5
242	CHAPTER 10:Photoacoustic Imaging of Oxygen. <i>RSC Detection Science</i> , <b>2018</b> , 205-219	0.4	2
241	Ultracompact Nanotheranostic PEG Platform for Cancer Applications.. <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1094-1101	4.1	0
240	Ion-Selective Nanosensor for Photoacoustic and Fluorescence Imaging of Potassium. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 7943-7949	7.8	37
239	In vivo quantitative imaging of tumor pH by nanosonophore assisted multispectral photoacoustic imaging. <i>Nature Communications</i> , <b>2017</b> , 8, 471	17.4	73
238	Matrix Density Engineering of Hydrogel Nanoparticles with Simulation-Guided Synthesis for Tuning Drug Release and Cellular Uptake. <i>ACS Omega</i> , <b>2017</b> , 2, 3380-3389	3.9	7
237	Prostate cancer characterization by optical contrast enhanced photoacoustics. <i>Proceedings of SPIE</i> , <b>2016</b> , 9708,	1.7	6
236	Lifetime-resolved Photoacoustic (LPA) Spectroscopy for monitoring Oxygen change and Photodynamic Therapy (PDT). <i>Proceedings of SPIE</i> , <b>2016</b> , 9708,	1.7	3

235	Scattering based hyperspectral imaging of plasmonic nanoplate clusters towards biomedical applications. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 721-9	3.1	9
234	Polyethylenimine incorporation into hydrogel nanomatrices for enhancing nanoparticle-assisted chemotherapy. <i>RSC Advances</i> , <b>2016</b> , 6, 48016-48024	3.7	7
233	Cell-selective arrhythmia ablation for photomodulation of heart rhythm. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 311ra172	17.5	16
232	Magnetically guiding and orienting integrated chemical sensors. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2014</b> , 362, 229-234	2.8	4
231	Multifunctional theranostic gold nanoparticles for targeted CT imaging and photothermal therapy. <i>Contrast Media and Molecular Imaging</i> , <b>2014</b> , 9, 53-61	3.2	106
230	Highly stable polymer coated nano-clustered silver plates: a multimodal optical contrast agent for biomedical imaging. <i>Nanotechnology</i> , <b>2014</b> , 25, 445104	3.4	24
229	Overcoming cancer multidrug resistance by codelivery of doxorubicin and verapamil with hydrogel nanoparticles. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 1106-15	5.5	39
228	Click conjugation of peptide to hydrogel nanoparticles for tumor-targeted drug delivery. <i>Biomacromolecules</i> , <b>2014</b> , 15, 3728-34	6.9	27
227	Hydrogel Nanoparticles with Thermally Controlled Drug Release. <i>ACS Macro Letters</i> , <b>2014</b> , 3, 602-606	6.6	59
226	Nano-photosensitizers Engineered to Generate a Tunable Mix of Reactive Oxygen Species, for Optimizing Photodynamic Therapy, Using a Microfluidic Device. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1592-1600	8.6	52
225	Oxygen and seizure dynamics: I. Experiments. <i>Journal of Neurophysiology</i> , <b>2014</b> , 112, 205-12	3.2	29
224	Fractal dimension of microbead assemblies used for protein detection. <i>ChemPhysChem</i> , <b>2014</b> , 15, 3444-6	3.2	2
223	Asynchronous Magnetic Bead Rotation (AMBR) Microviscometer for Label-Free DNA Analysis. <i>Biosensors</i> , <b>2014</b> , 4, 76-89	5.9	14
222	Polyacrylamide-based biocompatible Nanoplatfrom enhances the tumor uptake, PET/fluorescence imaging and anticancer activity of a chlorophyll analog. <i>Theranostics</i> , <b>2014</b> , 4, 614-28	12.1	24
221	PEBBLE Nanosensors for In Vitro Bioanalysis <b>2014</b> , 555-574		
220	Photothermal therapy of cancer cells mediated by blue hydrogel nanoparticles. <i>Nanomedicine</i> , <b>2013</b> , 8, 1577-86	5.6	13
219	Sonophoric nanoprobe aided pH measurement in vivo using photoacoustic spectroscopy. <i>Analyst, The</i> , <b>2013</b> , 138, 3126-30	5	22
218	Polymer-Protein Hydrogel Nanomatrix for Stabilization of Indocyanine Green towards Targeted Fluorescence and Photoacoustic Bio-imaging. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1,	7.3	44

217	Modulation of hydrogel nanoparticle intracellular trafficking by multivalent surface engineering with tumor targeting peptide. <i>Nanoscale</i> , <b>2013</b> , 5, 10327-44	7.7	16
216	Bead assembly magnetorotation as a signal transduction method for protein detection. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 48, 26-32	11.8	11
215	Nature of segregation of reactants in diffusion controlled A + B reactions: role of mobility in forming compact clusters. <i>European Physical Journal B</i> , <b>2013</b> , 86, 1	1.2	1
214	In vivo oxygen sensing using lifetime based photoacoustic measurements <b>2013</b> ,		1
213	Hydrogel nanosensors for biophotonic imaging of chemical analytes. <i>Nanomedicine</i> , <b>2013</b> , 8, 1829-38	5.6	7
212	Targeted, Multifunctional Hydrogel Nanoparticles for Imaging and Treatment of Cancer. <i>Nanostructure Science and Technology</i> , <b>2012</b> , 225-255	0.9	9
211	Cell-specific nanoplatform-enabled photodynamic therapy for cardiac cells. <i>Heart Rhythm</i> , <b>2012</b> , 9, 1504-6	0.7	13
210	Nanoparticle PEBBLE sensors for quantitative nanomolar imaging of intracellular free calcium ions. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 978-86	7.8	58
209	Racing with nature: artificial nanomachines that keep running on light, both left and right. <i>ACS Nano</i> , <b>2012</b> , 6, 7553-5	16.7	6
208	Asynchronous magnetic bead rotation microviscometer for rapid, sensitive, and label-free studies of bacterial growth and drug sensitivity. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 5250-6	7.8	44
207	Nanoparticle PEBBLE sensors in live cells. <i>Methods in Enzymology</i> , <b>2012</b> , 504, 419-70	1.7	24
206	Multifunctional biodegradable polyacrylamide nanocarriers for cancer theranostics--a "see and treat" strategy. <i>ACS Nano</i> , <b>2012</b> , 6, 6843-51	16.7	103
205	Multifunctional nanoplatforms for fluorescence imaging and photodynamic therapy developed by post-loading photosensitizer and fluorophore to polyacrylamide nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2012</b> , 8, 941-50	6	50
204	Hydrogel nanoparticles with covalently linked coomassie blue for brain tumor delineation visible to the surgeon. <i>Small</i> , <b>2012</b> , 8, 884-91	11	53
203	Two-photon fluorescence imaging super-enhanced by multishell nanophotonic particles, with application to subcellular pH. <i>Small</i> , <b>2012</b> , 8, 2213-21	11	26
202	Self-assembled magnetic bead biosensor for measuring bacterial growth and antimicrobial susceptibility testing. <i>Small</i> , <b>2012</b> , 8, 2477-82	11	46
201	Lifetime-based photoacoustic oxygen sensing in vivo. <i>Journal of Biomedical Optics</i> , <b>2012</b> , 17, 057004	3.5	28
200	Asynchronous magnetic bead rotation (AMBR) biosensor in microfluidic droplets for rapid bacterial growth and susceptibility measurements. <i>Lab on A Chip</i> , <b>2011</b> , 11, 2604-11	7.2	65

199	Polymeric nanoparticles for photodynamic therapy. <i>Methods in Molecular Biology</i> , <b>2011</b> , 726, 151-78	1.4	38
198	Tissue distribution and pharmacokinetics of stable polyacrylamide nanoparticles following intravenous injection in the rat. <i>Toxicology and Applied Pharmacology</i> , <b>2011</b> , 251, 181-90	4.6	48
197	Targeted Blue Nanoparticles as Photoacoustic Contrast Agent for Brain Tumor Delineation. <i>Nano Research</i> , <b>2011</b> , 4, 1163-1173	10	47
196	Novel methods to incorporate photosensitizers into nanocarriers for cancer treatment by photodynamic therapy. <i>Lasers in Surgery and Medicine</i> , <b>2011</b> , 43, 686-95	3.6	45
195	Methylene blue-conjugated hydrogel nanoparticles and tumor-cell targeted photodynamic therapy. <i>Macromolecular Bioscience</i> , <b>2011</b> , 11, 90-9	5.5	87
194	Monitoring the growth and drug susceptibility of individual bacteria using asynchronous magnetic bead rotation sensors. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 26, 2751-5	11.8	49
193	Two-photon nano-PEBBLE sensors: subcellular pH measurements. <i>Analyst, The</i> , <b>2011</b> , 136, 3616-22	5	42
192	Label-acquired magnetorotation as a signal transduction method for protein detection: aptamer-based detection of thrombin. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 7123-8	7.8	21
191	Experimental system for one-dimensional rotational brownian motion. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 5212-8	3.4	17
190	Methylene blue covalently loaded polyacrylamide nanoparticles for enhanced tumor-targeted photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , <b>2011</b> , 10, 832-41	4.2	69
189	Label-acquired magnetorotation for biosensing: An asynchronous rotation assay. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2011</b> , 323, 272-278	2.8	17
188	Magnetically uniform and tunable Janus particles. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 024101	3.4	29
187	Nanoparticle induced cell magneto-rotation: monitoring morphology, stress and drug sensitivity of a suspended single cancer cell. <i>PLoS ONE</i> , <b>2011</b> , 6, e28475	3.7	29
186	Reaction kinetics: Catalysis without a catalyst. <i>Nature Chemistry</i> , <b>2010</b> , 2, 430-1	17.6	1
185	Multifunctional Nanoparticles for Targeted Imaging and Therapy of Cancer. <i>Materials Research Society Symposia Proceedings</i> , <b>2010</b> , 1257, 1		
184	Magnetic confinement of Brownian rotation to a single axis and application to Janus and cluster microparticles. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 144103	3.4	8
183	High frequency asynchronous magnetic bead rotation for improved biosensors. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 223701	3.4	22
182	Near infrared luminescent oxygen nanosensors with nanoparticle matrix tailored sensitivity. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 8446-55	7.8	81

181	Nanoencapsulation method for high selectivity sensing of hydrogen peroxide inside live cells. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2165-9	7.8	74
180	The brain tumor window model: a combined cranial window and implanted glioma model for evaluating intraoperative contrast agents. <i>Neurosurgery</i> , <b>2010</b> , 66, 736-43	3.2	35
179	Chapter 11:Nanoparticles for Cancer Diagnosis and Therapy. <i>RSC Nanoscience and Nanotechnology</i> , <b>2010</b> , 333-353		3
178	Eradication of bacteria in suspension and biofilms using methylene blue-loaded dynamic nanoplatforms. <i>Antimicrobial Agents and Chemotherapy</i> , <b>2009</b> , 53, 3042-8	5.9	49
177	Optical nanoparticle sensors for quantitative intracellular imaging. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2009</b> , 1, 98-110	9.2	58
176	Compact sensor for measuring nonlinear rotational dynamics of driven magnetic microspheres with biomedical applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2009</b> , 321, 1648-1652	2.8	24
175	Fabrication, Characterization, and Spectral Properties of Indigo Blue Nanocrystals. <i>Molecular Crystals and Liquid Crystals</i> , <b>2009</b> , 501, 138-144	0.5	9
174	Nanoparticle PEBBLE sensors in live cells and in vivo. <i>Annual Review of Analytical Chemistry</i> , <b>2009</b> , 2, 57-76	12.5	155
173	In vitro characterization of a targeted, dye-loaded nanodevice for intraoperative tumor delineation. <i>Neurosurgery</i> , <b>2009</b> , 64, 965-71; discussion 971-2	3.2	51
172	Targeted gold nanoparticles enable molecular CT imaging of cancer. <i>Nano Letters</i> , <b>2008</b> , 8, 4593-6	11.5	640
171	Bioeliminable nanohydrogels for drug delivery. <i>Nano Letters</i> , <b>2008</b> , 8, 3320-4	11.5	65
170	Photoacoustic probing of fluorophore excited state lifetime with application to oxygen sensing. <i>Journal of Biomedical Optics</i> , <b>2008</b> , 13, 034023	3.5	33
169	Encapsulation of methylene blue in polyacrylamide nanoparticle platforms protects its photodynamic effectiveness. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 369, 579-83	3.4	93
168	Ratiometric photoacoustic sensing of pH using a "sonophore". <i>Analyst, The</i> , <b>2008</b> , 133, 747-9	5	23
167	Slipping friction of an optically and magnetically manipulated microsphere rolling at a glass-water interface. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 054915	2.5	12
166	"Nanosized voltmeter" enables cellular-wide electric field mapping. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1163-74	7.9	121
165	Ultrafine hydrogel nanoparticles: synthetic approach and therapeutic application in living cells. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 2224-7	16.4	100
164	Ultrafine Hydrogel Nanoparticles: Synthetic Approach and Therapeutic Application in Living Cells. <i>Angewandte Chemie</i> , <b>2007</b> , 119, 2274-2277	3.6	13

163	Physiochemical microparticle sensors based on nonlinear magnetic oscillations. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 330-340	8.5	60
162	Photodynamic Characterization and In Vitro Application of Methylene Blue-containing Nanoparticle Platforms. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 81, 242-249	3.6	17
161	Photonic Explorers Based on Multifunctional Nanoplatfroms: In Vitro and In Vivo Biomedical Applications. <i>ACS Symposium Series</i> , <b>2007</b> , 200-218	0.4	4
160	The Embedding of Meta-tetra(Hydroxyphenyl)-Chlorin into Silica Nanoparticle Platforms for Photodynamic Therapy and Their Singlet Oxygen Production and pH-dependent Optical Properties. <i>Photochemistry and Photobiology</i> , <b>2007</b> , 78, 587-591	3.6	3
159	Magnetically controlled sensor swarms. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 121, 83-92	8.5	23
158	Single bacterial cell detection with nonlinear rotational frequency shifts of driven magnetic microspheres. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 224105	3.4	29
157	Indocyanine-green-embedded PEBBLEs as a contrast agent for photoacoustic imaging. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 044020	3.5	158
156	Photonic explorers based on multifunctional nanoplatfroms for biosensing and photodynamic therapy. <i>Applied Optics</i> , <b>2007</b> , 46, 1924-30	1.7	51
155	Visualization of vacuolar acidification-induced transcription of genes of pathogens inside macrophages. <i>Molecular Biology of the Cell</i> , <b>2006</b> , 17, 498-510	3.5	90
154	Sudden breakdown in linear response of a rotationally driven magnetic microparticle and application to physical and chemical microsensing. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 18958-64	3.4	84
153	Vascular targeted nanoparticles for imaging and treatment of brain tumors. <i>Clinical Cancer Research</i> , <b>2006</b> , 12, 6677-86	12.9	431
152	Nanoparticles for two-photon photodynamic therapy in living cells. <i>Nano Letters</i> , <b>2006</b> , 6, 2383-6	11.5	177
151	Magnetically assisted and accelerated self-assembly of strawberry-like nano/microparticles. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19929-34	3.4	11
150	DsRed as a highly sensitive, selective, and reversible fluorescence-based biosensor for both Cu(+) and Cu(2+) ions. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 21, 1302-8	11.8	55
149	Cu+- and Cu2+-sensitive PEBBLE fluorescent nanosensors using DsRed as the recognition element. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 113, 760-767	8.5	62
148	Brain cancer diagnosis and therapy with nanoplatfroms. <i>Advanced Drug Delivery Reviews</i> , <b>2006</b> , 58, 1556-1575	18.5	248
147	Alexa Fluor 488 as an iron sensing molecule and its application in PEBBLE nanosensors. <i>Analyst</i> , <b>2005</b> , 130, 528-33	5	148
146	Ratiometric fiber optic sensors for the detection of inter- and intra-cellular dissolved oxygen. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2913		79



145	Photodynamic characterization and in vitro application of methylene blue-containing nanoparticle platforms. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 242-9	3.6	218
144	Ratiometric singlet oxygen nano-optodes and their use for monitoring photodynamic therapy nanoplateforms. <i>Photochemistry and Photobiology</i> , <b>2005</b> , 81, 1489-98	3.6	37
143	Magnetically-modulated optical nanoprobe (MagMOONs) and systems. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 655-662	2.8	47
142	Multifunctional nanoparticle platforms for in vivo MRI enhancement and photodynamic therapy of a rat brain cancer. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 404-410	2.8	159
141	Magnetically modulated optical nanoprobe (MagMOONs) for detection and measurement of biologically important ions against the natural background fluorescence of intracellular environments. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 715-724	2.8	20
140	Microrheology with modulated optical nanoprobe (MOONs). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 663-670	2.8	68
139	Magnetic microdrill as a modulated fluorescent pH sensor. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2005</b> , 293, 696-701	2.8	20
138	Fabrication of Nanoparticles and Microspheres with Uniform Magnetic Half-Shells. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 899, 1		
137	Photonic and magnetic nanoexplorers for biomedical use: from subcellular imaging to cancer diagnostics and therapy <b>2004</b> , 5331, 76		15
136	Optochemical nanosensor PEBBLEs: photonic explorers for bioanalysis with biologically localized embedding. <i>Current Opinion in Chemical Biology</i> , <b>2004</b> , 8, 540-6	9.7	129
135	Poly(decyl methacrylate)-based fluorescent PEBBLE swarm nanosensors for measuring dissolved oxygen in biosamples. <i>Analyst, The</i> , <b>2004</b> , 129, 745-50	5	92
134	Metal-Capped Brownian and Magnetically Modulated Optical Nanoprobe (MOONs): Micromechanics in Chemical and Biological Microenvironments <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 10408-10414	3.4	106
133	Photoexcitation-Based Nano-Explorers: Chemical Analysis inside Live Cells and Photodynamic Therapy. <i>Israel Journal of Chemistry</i> , <b>2004</b> , 44, 317-337	3.4	24
132	Real-time measurements of dissolved oxygen inside live cells by organically modified silicate fluorescent nanosensors. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 2498-505	7.8	275
131	Nanoscale probes encapsulated by biologically localized embedding (PEBBLEs) for ion sensing and imaging in live cells. <i>Talanta</i> , <b>2004</b> , 63, 41-59	6.2	140
130	Optical manipulation of metal-silica hybrid nanoparticles <b>2004</b> , 5514, 502		9
129	Synthesis and characterization of silica-embedded iron oxide nanoparticles for magnetic resonance imaging. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2004</b> , 4, 72-6	1.3	32
128	Dimensional Crossover in the Growth of Depletion Zone in a Rectangular Capillary: Experiments and Monte Carlo Simulations. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 790, 1		



127	Room-temperature preparation and characterization of poly (ethylene glycol)-coated silica nanoparticles for biomedical applications. <i>Journal of Biomedical Materials Research Part B</i> , <b>2003</b> , 66, 870-9		152
126	Production of singlet oxygen by Ru(dpp(SO <sub>3</sub> ) <sub>2</sub> ) <sub>3</sub> incorporated in polyacrylamide PEBBLES. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 90, 82-89	8.5	52
125	Development of a hydroxyl radical ratiometric nanoprobe. <i>Sensors and Actuators B: Chemical</i> , <b>2003</b> , 90, 76-81	8.5	41
124	Liquid polymer nano-PEBBLES for Cl <sup>-</sup> analysis and biological applications. <i>Analyst, The</i> , <b>2003</b> , 128, 1262-75		52
123	Ratiometric optical PEBBLE nanosensors for real-time magnesium ion concentrations inside viable cells. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3784-91	7.8	174
122	Aspherical magnetically modulated optical nanoprobe (MagMOONS). <i>Journal of Applied Physics</i> , <b>2003</b> , 93, 6698-6700	2.5	62
121	Anomalous Kinetics of Depletion Zone Growth with One-Dimensional Geometry: Photobleaching Experiments and Simulations. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 790, 1		
120	Characterization and Applications of Modulated Optical Nanoprobes (MOONS). <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 790, 1		2
119	The embedding of meta-tetra(hydroxyphenyl)-chlorin into silica nanoparticle platforms for photodynamic therapy and their singlet oxygen production and pH-dependent optical properties. <i>Photochemistry and Photobiology</i> , <b>2003</b> , 78, 587-91	3.6	124
118	Magnetically modulated optical nanoprobe. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 1102-1104	3.4	117
117	PEBBLE Nanosensors for Bioanalysis <b>2003</b> ,		8
116	Optical trapping near resonance absorption. <i>Applied Optics</i> , <b>2002</b> , 41, 2318-27	1.7	71
115	Fluorescent nano-PEBBLE sensors designed for intracellular glucose imaging. <i>Analyst, The</i> , <b>2002</b> , 127, 1471-7	5	121
114	A fluorescent PEBBLE nanosensor for intracellular free zinc. <i>Analyst, The</i> , <b>2002</b> , 127, 11-6	5	128
113	Gel-free experiments of reaction-diffusion front kinetics. <i>Physical Review E</i> , <b>2001</b> , 64, 055102	2.4	31
112	A real-time ratiometric method for the determination of molecular oxygen inside living cells using sol-gel-based spherical optical nanosensors with applications to rat C6 glioma. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4124-33	7.8	294
111	Fluorescent nanosensors for intracellular chemical analysis: decyl methacrylate liquid polymer matrix and ion-exchange-based potassium PEBBLE sensors with real-time application to viable rat C6 glioma cells. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 2221-8	7.8	161
110	Observation of Laser Speckle Effects in an Elementary Chemical Reaction. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 651, 1		

109	Studies of Temperature-Dependent Excimer-Monomer Conversion in Dendrimeric Antenna Supermolecules by Fluorescence Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 651, 1		
108	Subwavelength Optical Microscopy and Spectroscopy Using Near-Field Optics. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2000</b> , 25, 87-162	10.1	4
107	Observation of laser speckle effects and nonclassical kinetics in an elementary chemical reaction. <i>Physical Review Letters</i> , <b>2000</b> , 85, 666-9	7.4	26
106	Correlated Excimer Formation and Molecular Rotational Dynamics in Phenylacetylene Dendrimers. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 3988-3995	3.4	55
105	Hierarchies of nonclassical reaction kinetics due to anisotropic confinements. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 2116-2121	3.9	14
104	Distribution of Ion-Implanted Nitrogen in Iron Alloys Investigated by AES. <i>Mikrochimica Acta</i> , <b>1999</b> , 131, 121-128	5.8	53
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