

# Rafik Naccache

## List of Publications by Year in descending order

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39  
papers

3,833  
citations

331259

21  
h-index

377514

34  
g-index

41  
all docs

41  
docs citations

41  
times ranked

4847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature Sensing Using Fluorescent Nanothermometers. ACS Nano, 2010, 4, 3254-3258.	7.3	1,284
2	Colloidal Tm <sup>3+</sup> /Yb <sup>3+</sup> -Doped LiYF <sub>4</sub> Nanocrystals: Multiple Luminescence Spanning the UV to NIR Regions via Low-Energy Excitation. Advanced Materials, 2009, 21, 4025-4028.	11.1	400
3	Controlled Synthesis and Water Dispersibility of Hexagonal Phase NaGdF <sub>4</sub> :Ho <sup>3+</sup> /Yb <sup>3+</sup> Nanoparticles. Chemistry of Materials, 2009, 21, 717-723.	3.2	357
4	Microwave-assisted synthesis of carbon dots and their applications. Journal of Materials Chemistry C, 2019, 7, 7175-7195.	2.7	270
5	Technology readiness and overcoming barriers to sustainably implement nanotechnology-enabled plant agriculture. Nature Food, 2020, 1, 416-425.	6.2	239
6	Water dispersible ultra-small multifunctional KGdF <sub>4</sub> :Tm <sup>3+</sup> , Yb <sup>3+</sup> nanoparticles with near-infrared to near-infrared upconversion. Journal of Materials Chemistry, 2011, 21, 16589.	6.7	161
7	Effects of nitrogen-doping on the photophysical properties of carbon dots. Journal of Materials Chemistry C, 2019, 7, 853-862.	2.7	126
8	Green synthesis of carbon dots and their applications. RSC Advances, 2021, 11, 25354-25363.	1.7	113
9	Cross-Relaxation and Upconversion Processes in Pr <sup>3+</sup> Singly Doped and Pr <sup>3+</sup> /Yb <sup>3+</sup> Codoped Nanocrystalline Gd <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> : The Sensitizer/Activator Relationship. Journal of Physical Chemistry C, 2008, 112, 7750-7756.	1.5	112
10	Ratiometric detection of heavy metal ions using fluorescent carbon dots. Environmental Science: Nano, 2019, 6, 1121-1130.	2.2	112
11	Structural and optical investigation of colloidal Ln <sup>3+</sup> /Yb <sup>3+</sup> co-doped KY <sub>3</sub> F <sub>10</sub> nanocrystals. Journal of Materials Chemistry, 2009, 19, 3149.	6.7	84
12	Intracellular ratiometric temperature sensing using fluorescent carbon dots. Nanoscale Advances, 2019, 1, 105-113.	2.2	82
13	High Relaxivities and Strong Vascular Signal Enhancement for NaGdF <sub>4</sub> Nanoparticles Designed for Dual MR/Optical Imaging. Advanced Healthcare Materials, 2013, 2, 1478-1488.	3.9	63
14	High Resolution Fluorescence Imaging of Cancers Using Lanthanide Ion-Doped Upconverting Nanocrystals. Cancers, 2012, 4, 1067-1105.	1.7	53
15	Elucidating the mechanism of dual-fluorescence in carbon dots. Journal of Colloid and Interface Science, 2022, 606, 67-76.	5.0	51
16	A carbon dot-catalyzed transesterification reaction for the production of biodiesel. Journal of Materials Chemistry A, 2019, 7, 23794-23802.	5.2	43
17	Quantifying the photothermal conversion efficiency of plasmonic nanoparticles by means of terahertz radiation. APL Photonics, 2019, 4, .	3.0	32
18	Graphitic carbon nitrides: Efficient heterogeneous catalysts for biodiesel production. Nano Energy, 2020, 78, 105306.	8.2	32

#	ARTICLE	IF	CITATIONS
19	Tuning residual chirality in carbon dots with anti-microbial properties. RSC Advances, 2020, 10, 32202-32210.	1.7	32
20	Elucidating the Quenching Mechanism in Carbon Dot-Metal Interactionsâ€œDesigning Sensitive and Selective Optical Probes. Sensors, 2021, 21, 1391.	2.1	31
21	Terahertz Thermometry: Combining Hyperspectral Imaging and Temperature Mapping at Terahertz Frequencies. Laser and Photonics Reviews, 2017, 11, 1600342.	4.4	25
22	Visible Upconversion Emission of Pr <sup>3+</sup> Doped Gadolinium Gallium Garnet Nanocrystals. Journal of Nanoscience and Nanotechnology, 2004, 4, 1025-1031.	0.9	21
23	Facile Aqueous-Phase Synthesis of an Ultrasmall Bismuth Nanocatalyst for the Reduction of 4-Nitrophenol. ACS Omega, 2019, 4, 14955-14961.	1.6	16
24	Ratiometric pH Sensing in Living Cells Using Carbon Dots. Particle and Particle Systems Characterization, 2020, 37, 1900430.	1.2	14
25	Effects of polydopamine-passivation on the optical properties of carbon dots and its potential use <i>in vivo</i> . Physical Chemistry Chemical Physics, 2020, 22, 16595-16605.	1.3	14
26	The effects of chemical and thermal exfoliation on the physico-chemical and optical properties of carbon nitrides. Journal of Materials Chemistry C, 2021, 9, 7622-7631.	2.7	14
27	Terahertz three-dimensional monitoring of nanoparticle-assisted laser tissue soldering. Biomedical Optics Express, 2020, 11, 2254.	1.5	14
28	Toward Uniform Optical Properties of Carbon Dots. Particle and Particle Systems Characterization, 2020, 37, 2000119.	1.2	12
29	Carbon Dot-Sensitized Photoanodes for Visible Light-Driven Organic Transformations. ACS Applied Nano Materials, 2020, 3, 2756-2765.	2.4	7
30	Selective detection of nitrotyrosine using dual-fluorescent carbon dots. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 279, 121444.	2.0	6
31	Imaging: High Relaxivities and Strong Vascular Signal Enhancement for NaGdF <sub>4</sub> Nanoparticles Designed for Dual MR/Optical Imaging (Adv. Healthcare Mater. 11/2013). Advanced Healthcare Materials, 2013, 2, 1477-1477.	3.9	4
32	Carbon nanotubes derived from waste cooking oil for the removal of emerging contaminants. New Journal of Chemistry, 2022, 46, 11315-11328.	1.4	4
33	Optical Sensing: Ratiometric pH Sensing in Living Cells Using Carbon Dots (Part. Part. Syst. Charact.) Tj ETQq1 1 0.784314 rgBT /Overlo	1.2	2
34	3D Network of Sepia Melanin and Na <sup>+</sup> and S <sup>2-</sup> Doped Graphitic Carbon Quantum Dots for Sustainable Electrochemical Capacitors. Advanced Sustainable Systems, 2021, 5, 2100152.	2.7	2
35	Investigation of Nanoparticle-Assisted Laser Tissue Soldering by Terahertz Radiation. , 2019, , .		1
36	Intracellular Imaging and Thermal Sensing Using Fluorescent Carbon Dots. ECS Meeting Abstracts, 2019, , .	0.0	0

#	ARTICLE	IF	CITATIONS
37	(Invited) Carbon Dots “ from Imaging to Green Energy Applications. ECS Meeting Abstracts, 2020, MA2020-01, 728-728.	0.0	0
38	Dynamic Terahertz Investigation of Nanoparticle-assisted Laser-tissue Interaction. , 2020, , .		0
39	Terahertz multi-dimensional imaging for nanoparticle-assisted therapeutics. , 2022, , .		0