

Rachid Sougrat

List of Publications by Year in descending order

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65
papers

16,197
citations

76326

40
h-index

118850

62
g-index

65
all docs

65
docs citations

65
times ranked

22235
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging Intracellular Fluorescent Proteins at Nanometer Resolution. <i>Science</i> , 2006, 313, 1642-1645.	12.6	7,580
2	Mitochondria Supply Membranes for Autophagosome Biogenesis during Starvation. <i>Cell</i> , 2010, 141, 656-667.	28.9	1,200
3	Interferometric fluorescent super-resolution microscopy resolves 3D cellular ultrastructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3125-3130.	7.1	816
4	MXenes stretch hydrogel sensor performance to new limits. <i>Science Advances</i> , 2018, 4, eaat0098.	10.3	556
5	Atomic-resolution transmission electron microscopy of electron beam-sensitive crystalline materials. <i>Science</i> , 2018, 359, 675-679.	12.6	374
6	Enhanced photocatalytic hydrogen evolution from organic semiconductor heterojunction nanoparticles. <i>Nature Materials</i> , 2020, 19, 559-565.	27.5	366
7	Serum ferritin is derived primarily from macrophages through a nonclassical secretory pathway. <i>Blood</i> , 2010, 116, 1574-1584.	1.4	364
8	Dynamics of endosomal sorting complex required for transport (ESCRT) machinery during cytokinesis and its role in abscission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 4846-4851.	7.1	346
9	A role for actin arcs in the leading-edge advance of migrating cells. <i>Nature Cell Biology</i> , 2011, 13, 371-382.	10.3	314
10	Unravelling surface and interfacial structures of a metal-organic framework by transmission electron microscopy. <i>Nature Materials</i> , 2017, 16, 532-536.	27.5	306
11	Switchable pH-Responsive Polymeric Membranes Prepared via Block Copolymer Micelle Assembly. <i>ACS Nano</i> , 2011, 5, 3516-3522.	14.6	255
12	Impaired Stratum Corneum Hydration in Mice Lacking Epidermal Water Channel Aquaporin-3. <i>Journal of Biological Chemistry</i> , 2002, 277, 17147-17153.	3.4	236
13	Solution-Processed Small Molecule-Polymer Blend Organic Thin-Film Transistors with Hole Mobility Greater than 5 cm ² /Vs. <i>Advanced Materials</i> , 2012, 24, 2441-2446.	21.0	219
14	Coatomer-dependent protein delivery to lipid droplets. <i>Journal of Cell Science</i> , 2009, 122, 1834-1841.	2.0	216
15	Ultraporous Films with Uniform Nanochannels by Block Copolymer Micelles Assembly. <i>Macromolecules</i> , 2010, 43, 8079-8085.	4.8	200
16	The Glycolytic Shift in Fumarate-Hydratase-Deficient Kidney Cancer Lowers AMPK Levels, Increases Anabolic Propensities and Lowers Cellular Iron Levels. <i>Cancer Cell</i> , 2011, 20, 315-327.	16.8	190
17	Functional Expression of AQP3 in Human Skin Epidermis and Reconstructed Epidermis. <i>Journal of Investigative Dermatology</i> , 2002, 118, 678-685.	0.7	172
18	Electron Tomography of the Contact between T Cells and SIV/HIV-1: Implications for Viral Entry. <i>PLoS Pathogens</i> , 2007, 3, e63.	4.7	165

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19	3D visualization of the internal nanostructure of polyamide thin films in RO membranes. <i>Journal of Membrane Science</i> , 2016, 501, 33-44.	8.2	149
20	Multilayered Mechanism of CD4 Downregulation by HIV-1 Vpu Involving Distinct ER Retention and ERAD Targeting Steps. <i>PLoS Pathogens</i> , 2010, 6, e1000869.	4.7	145
21	Molecular basis for Golgi maintenance and biogenesis. <i>Current Opinion in Cell Biology</i> , 2004, 16, 364-372.	5.4	144
22	Hollow Au@Pd and Au@Pt core-shell nanoparticles as electrocatalysts for ethanol oxidation reactions. <i>Journal of Materials Chemistry</i> , 2012, 22, 25003.	6.7	140
23	Microbial Community Composition and Ultrastructure of Granules from a Full-Scale Anammox Reactor. <i>Microbial Ecology</i> , 2015, 70, 118-131.	2.8	115
24	Golgi Inheritance in Mammalian Cells Is Mediated through Endoplasmic Reticulum Export Activities. <i>Molecular Biology of the Cell</i> , 2006, 17, 990-1005.	2.1	108
25	From Micelle Supramolecular Assemblies in Selective Solvents to Isoporous Membranes. <i>Langmuir</i> , 2011, 27, 10184-10190.	3.5	99
26	Successful implementation of the stepwise layer-by-layer growth of MOF thin films on confined surfaces: mesoporous silica foam as a first case study. <i>Chemical Communications</i> , 2012, 48, 11434.	4.1	98
27	Non-chemotoxic induction of cancer cell death using magnetic nanowires. <i>International Journal of Nanomedicine</i> , 2015, 10, 2141.	6.7	90
28	Electron tomography of the Maurer's cleft organelles of <i>Plasmodium falciparum</i> -infected erythrocytes reveals novel structural features. <i>Molecular Microbiology</i> , 2008, 67, 703-718.	2.5	80
29	Effect of acid treated carbon nanotubes on mechanical, rheological and thermal properties of polystyrene nanocomposites. <i>Composites Part B: Engineering</i> , 2011, 42, 1554-1561.	12.0	79
30	Not just a marker: CD34 on human hematopoietic stem/progenitor cells dominates vascular selectin binding along with CD44. <i>Blood Advances</i> , 2017, 1, 2799-2816.	5.2	73
31	Block Copolymer Hollow Fiber Membranes with Catalytic Activity and pH-Response. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7001-7006.	8.0	69
32	Phoenix Is Required for Mechanosensory Hair Cell Regeneration in the Zebrafish Lateral Line. <i>PLoS Genetics</i> , 2009, 5, e1000455.	3.5	67
33	The Twists and Turns of Maurer's Cleft Trafficking in <i>P. falciparum</i> -infected Erythrocytes. <i>Traffic</i> , 2008, 9, 187-197.	2.7	64
34	Silver-Enhanced Block Copolymer Membranes with Biocidal Activity. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 18497-18501.	8.0	58
35	Human Immunodeficiency Virus Type 1 Nef Protein Targets CD4 to the Multivesicular Body Pathway. <i>Journal of Virology</i> , 2009, 83, 6578-6590.	3.4	57
36	Interaction between the Triglyceride Lipase ATGL and the Arf1 Activator GBF1. <i>PLoS ONE</i> , 2011, 6, e21889.	2.5	56

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37	Electron tomography of viruses. <i>Current Opinion in Structural Biology</i> , 2007, 17, 596-602.	5.7	54
38	Iron Insufficiency Compromises Motor Neurons and Their Mitochondrial Function in <i>Irp2</i> -Null Mice. <i>PLoS ONE</i> , 2011, 6, e25404.	2.5	49
39	Three-Dimensional Scanning Transmission Electron Microscopy of Biological Specimens. <i>Microscopy and Microanalysis</i> , 2010, 16, 54-63.	0.4	45
40	Enzyme-Inspired Functional Surfactant for Aerobic Oxidation of Activated Alcohols to Aldehydes in Water. <i>ACS Catalysis</i> , 2015, 5, 1313-1317.	11.2	43
41	Compatibilizing role of carbon nanotubes in poly(vinyl alcohol)/starch blend. <i>Starch/Staerke</i> , 2015, 67, 147-153.	2.1	41
42	Molecular investigations to improve diagnostic accuracy in patients with ARC syndrome. <i>Human Mutation</i> , 2009, 30, E330-E337.	2.5	40
43	<i>Batf3</i> and <i>Id2</i> Have a Synergistic Effect on <i>Irf8</i> -Directed Classical CD8 ⁺ Dendritic Cell Development. <i>Journal of Immunology</i> , 2013, 191, 5993-6001.	0.8	37
44	Ionic liquids as self-assembly guide for the formation of nanostructured block copolymer membranes. <i>Journal of Membrane Science</i> , 2015, 492, 568-577.	8.2	32
45	Artificial 3D hierarchical and isotropic porous polymeric materials. <i>Science Advances</i> , 2018, 4, eaat0713.	10.3	31
46	Nanoroses of Nickel Oxides: Synthesis, Electron Tomography Study, and Application in CO Oxidation and Energy Storage. <i>ChemSusChem</i> , 2012, 5, 1241-1248.	6.8	30
47	Synthesis of highly porous poly(<i>tert</i> -butyl acrylate)- <i>b</i> -polysulfone- <i>b</i> -poly(<i>tert</i> -butyl acrylate) asymmetric membranes. <i>Polymer Chemistry</i> , 2016, 7, 3076-3089.	3.9	28
48	Functionalized Nanochannels from Self-Assembled and Photomodified Poly(<i>Styrene-<i>b</i>-Butadiene-<i>b</i>-Styrene</i>). <i>Small</i> , 2018, 14, e1701885.	10.0	19
49	Analysis of De Novo Golgi Complex Formation after Enzyme-based Inactivation. <i>Molecular Biology of the Cell</i> , 2007, 18, 4637-4647.	2.1	17
50	The effect of butenolide on behavioral and morphological changes in two marine fouling species, the barnacle <i>Balanus amphitrite</i> and the bryozoan <i>Bugula neritina</i> . <i>Biofouling</i> , 2011, 27, 467-475.	2.2	17
51	Zippered release from polymer-gated carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012, 22, 11503.	6.7	17
52	3D Analysis of Ordered Porous Polymeric Particles using Complementary Electron Microscopy Methods. <i>Scientific Reports</i> , 2019, 9, 13987.	3.3	17
53	One-Pot Synthesis of Au@SiO ₂ Catalysts: A Click Chemistry Approach. <i>ACS Combinatorial Science</i> , 2014, 16, 513-517.	3.8	16
54	Developments in TEM Nanotomography of Calcium Silicate Hydrate. <i>Journal of the American Ceramic Society</i> , 2015, 98, 2307-2312.	3.8	15

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55	Golgi Inheritance Under a Block of Anterograde and Retrograde Traffic. <i>Traffic</i> , 2004, 5, 284-299.	2.7	11
56	Effect of Mn doped-titania on the activity of metallocene catalyst by in situ ethylene polymerization. <i>Journal of Industrial and Engineering Chemistry</i> , 2012, 18, 1836-1840.	5.8	11
57	Effect of High Shear Mixing Parameters and Degassing Temperature on the Morphology of Epoxy-Clay Nanocomposites. <i>Advanced Materials Research</i> , 0, 652-654, 159-166.	0.3	10
58	Nanoblock Aggregation~Disaggregation of Zeolite Nanoparticles: Temperature Control on Crystallinity. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7285-7291.	3.1	9
59	Synthesis and characterization of polystyrene coated iron oxide nanoparticles and asymmetric assemblies by phase inversion. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	9
60	Mechanical, Rheological and Thermal Properties of Polystyrene/1-Octadecanol Modified Carbon Nanotubes Nanocomposites. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 209-217.	2.1	9
61	Effective antireflection properties of porous silicon nanowires for photovoltaic applications. , 2013, , .		8
62	Cytosolic aggregates in presence of non~translocated proteins perturb endoplasmic reticulum structure and dynamics. <i>Traffic</i> , 2019, 20, 943-960.	2.7	8
63	Facile synthesis and application of a carbon foam with large mesopores. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19134.	2.8	7
64	Nanocapsules with fluororous filling: A ~molecular zipper~approach. <i>Journal of Polymer Science Part A</i> , 2015, 53, 215-218.	2.3	1
65	Gigabytes to Bytes: Automated Denoising and Feature Extraction as Applied to the Analysis of HIV Architecture and Variability using Electron Tomography. , 2007, , .		0