

Revathi R Bacsa

List of Publications by Year in descending order

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42
papers

5,500
citations

236833

25
h-index

265120

42
g-index

43
all docs

43
docs citations

43
times ranked

8212
citing authors

#	ARTICLE	IF	CITATIONS
1	Specific surface area of carbon nanotubes and bundles of carbon nanotubes. Carbon, 2001, 39, 507-514.	5.4	1,782
2	Elastic and Shear Moduli of Single-Walled Carbon Nanotube Ropes. Physical Review Letters, 1999, 82, 944-947.	2.9	1,352
3	Gram-scale CCVD synthesis of double-walled carbon nanotubes. Chemical Communications, 2003, , 1442.	2.2	350
4	Effect of rutile phase on the photocatalytic properties of nanocrystalline titania during the degradation of p-coumaric acid. Applied Catalysis B: Environmental, 1998, 16, 19-29.	10.8	341
5	Preparation, Testing and Characterization of Doped TiO ₂ Active in the Peroxidation of Biomolecules under Visible Light. Journal of Physical Chemistry B, 2005, 109, 5994-6003.	1.2	201
6	Electrochemical, hydrothermal, and electrochemical-hydrothermal synthesis of barium titanate thin films on titanium substrates. Journal of Materials Research, 1992, 7, 423-428.	1.2	115
7	Rutile Formation in Hydrothermally Crystallized Nanosized Titania. Journal of the American Ceramic Society, 1996, 79, 2185-2188.	1.9	108
8	Catalytic performance of Au/ZnO nanocatalysts for CO oxidation. Journal of Catalysis, 2010, 273, 191-198.	3.1	99
9	Theoretical and Experimental Studies on the Carbon Nanotube Surface Oxidation by Nitric Acid: Interplay between Functionalization and Vacancy Enlargement. Chemistry - A European Journal, 2011, 17, 11467-11477.	1.7	93
10	Synergistic effect between carbon nanomaterials and ZnO for photocatalytic water decontamination. Journal of Catalysis, 2015, 331, 172-180.	3.1	91
11	CCVD synthesis of carbon nanotubes from (Mg,Co,Mo)O catalysts: influence of the proportions of cobalt and molybdenum. Journal of Materials Chemistry, 2004, 14, 646.	6.7	75
12	Hydrogen Storage in High Surface Area Carbon Nanotubes Produced by Catalytic Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 12718-12723.	1.2	69
13	Multi-walled carbon nanotubes functionalized by carboxylic groups: Activation of TiO ₂ (anatase) and phosphate olivines (LiMnPO ₄ ; LiFePO ₄) for electrochemical Li-storage. Journal of Power Sources, 2010, 195, 5360-5369.	4.0	68
14	Synthesis and Structure-Property Correlation in Shape-Controlled ZnO Nanoparticles Prepared by Chemical Vapor Synthesis and their Application in Dye-Sensitized Solar Cells. Advanced Functional Materials, 2009, 19, 875-886.	7.8	67
15	Catalytically Grown Carbon Nanotubes of Small Diameter Have a High Young's Modulus. Nano Letters, 2005, 5, 2074-2077.	4.5	65
16	Developing highly active photocatalysts: Gold-loaded ZnO for solar phenol oxidation. Journal of Catalysis, 2014, 316, 182-190.	3.1	65
17	Role of Graphene in Water-Assisted Oxidation of Copper in Relation to Dry Transfer of Graphene. Chemistry of Materials, 2017, 29, 4546-4556.	3.2	63
18	Selective Deposition of Gold Nanoparticles on or Inside Carbon Nanotubes and Their Catalytic Activity for Preferential Oxidation of CO. European Journal of Inorganic Chemistry, 2010, 2010, 5096-5102.	1.0	50

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19	Low-temperature synthesis of BaTiO ₃ thin films on silicon substrates by hydrothermal reaction. Applied Physics Letters, 1993, 63, 1053-1055.	1.5	47
20	Polyoxotungstate@Carbon Nanocomposites As Oxygen Reduction Reaction (ORR) Electrocatalysts. Langmuir, 2018, 34, 6376-6387.	1.6	41
21	Chemical Vapor Synthesis of Zinc Oxide Nanoparticles: Experimental and Preliminary Modeling Studies. Journal of Physical Chemistry C, 2009, 113, 19845-19852.	1.5	38
22	Large scale synthesis of zinc oxide nanorods by homogeneous chemical vapour deposition and their characterisation. Surface and Coatings Technology, 2007, 201, 9200-9204.	2.2	33
23	Synergistic effect between few layer graphene and carbon nanotube supports for palladium catalyzing electrochemical oxidation of alcohols. Journal of Energy Chemistry, 2013, 22, 296-304.	7.1	33
24	Few layer graphene synthesis on transition metal ferrite catalysts. Carbon, 2015, 89, 350-360.	5.4	32
25	Spectroscopic detection of carbon nanotube interaction with amphiphilic molecules in epoxy resin composites. Journal of Applied Physics, 2005, 97, 034303.	1.1	26
26	Oxidized few layer graphene and graphite as metal-free catalysts for aqueous sulfide oxidation. Journal of Materials Chemistry A, 2013, 1, 9491.	5.2	25
27	Catalytic activity of gold supported on ZnO tetrapods for the preferential oxidation of carbon monoxide under hydrogen rich conditions. Nanoscale, 2011, 3, 929-932.	2.8	22
28	Deposition of gold nanoparticles on ZnO and their catalytic activity for hydrogenation applications. Catalysis Communications, 2012, 22, 79-82.	1.6	22
29	Effect of the Carbon Support on the Catalytic Activity of Ruthenium-Magnetite Catalysts for Chloronitrobenzene Hydrogenation. ChemCatChem, 2015, 7, 2971-2978.	1.8	20
30	Biomolecules Electrochemical Sensing Properties of a PMo ₁₁ V@N-Doped Few Layer Graphene Nanocomposite. Inorganics, 2015, 3, 178-193.	1.2	17
31	N-doped few-layered graphene-polyNi complex nanocomposite with excellent electrochromic properties. Carbon, 2017, 120, 32-43.	5.4	17
32	Light scattering of double wall carbon nanotubes under hydrostatic pressure: pressure effects on the internal and external tubes. Physica Status Solidi (B): Basic Research, 2004, 241, 3360-3366.	0.7	14
33	(Mg,Co)O Solid-Solution Precursors for the Large-Scale Synthesis of Carbon Nanotubes by Catalytic Chemical Vapor Deposition. Journal of the American Ceramic Society, 2002, 85, 2666-2669.	1.9	13
34	Optimizing metal-support interphase for efficient fuel cell oxygen reduction reaction catalyst. Journal of Colloid and Interface Science, 2020, 561, 439-448.	5.0	13
35	Ultraviolet photon absorption in single- and double-wall carbon nanotubes and peapods: Heating-induced phonon line broadening, wall coupling, and transformation. Physical Review B, 2007, 76, .	1.1	9
36	Photodeposition of Au and Pt on ZnO and TiO ₂ . Studies in Surface Science and Catalysis, 2010, 175, 629-633.	1.5	6

#	ARTICLE	IF	CITATIONS
37	Geomimetic catalysis: From volcanic stones to ultra-selective Fe-Mo/Al ₂ O ₃ -TiO ₂ catalysts for few-walled carbon nanotube production. <i>Carbon</i> , 2013, 64, 219-224.	5.4	5
38	Thermal transfer in SWNTs and peapods under UV-irradiation. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4064-4068.	0.7	2
39	CVD Synthesis of Shape and Size Controlled ZnO Nanoparticles for Application as UV Filters. <i>ECS Transactions</i> , 2009, 25, 1177-1183.	0.3	2
40	Preparation of Few-Layer Graphene/Carbon Nanotube Hybrids Using Oxide Spinel Catalysts. <i>Journal of Carbon Research</i> , 2019, 5, 28.	1.4	2
41	Laser Induced Modifications of Carbon Nanotube Composite Surfaces. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 7776-7779.	0.8	1
42	Inside Cover: Theoretical and Experimental Studies on the Carbon-Nanotube Surface Oxidation by Nitric Acid: Interplay between Functionalization and Vacancy Enlargement (<i>Chem. Eur. J.</i> 41/2011). <i>Chemistry - A European Journal</i> , 2011, 17, 11354-11354.	1.7	1