Yang Chen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1630162/publications.pdf

Version: 2024-02-01

50 papers	868 citations	471509 17 h-index	526287 27 g-index
50 all docs	50 docs citations	50 times ranked	465 citing authors

#	Article	IF	Citations
1	Development of polystyrene/polyaniline/ceria (PS/PANI/CeO2) multi-component abrasives for photochemical mechanical polishing/planarization applications. Applied Surface Science, 2022, 575, 151784.	6.1	25
2	Visible-light-active mesoporous ceria (CeO2) nanospheres for improved photocatalytic performance. Journal of Alloys and Compounds, 2022, 898, 162895.	5.5	22
3	Development of Zr- and Gd-doped porous ceria (pCeO2) abrasives for achieving high-quality and high-efficiency oxide chemical mechanical polishing. Ceramics International, 2022, 48, 14039-14049.	4.8	11
4	Tunable synthesis, characterization, and CMP performance of dendritic mesoporous silica nanospheres as functionalized abrasives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 638, 128322.	4.7	9
5	Design and fabrication of carbon spheres-supported cerium oxide heterostructured composites for enhanced photocatalytic activity. Ceramics International, 2022, 48, 17714-17722.	4.8	3
6	Fabrication, characterization and photocatalytic degradation activity of PS/PANI/CeO2 tri-layer nanostructured hybrids. Bulletin of Materials Science, 2022, 45, 1.	1.7	5
7	Development of carbon sphere/ceria (CS/CeO2) heterostructured particles and their applications to functional abrasives toward photochemical mechanical polishing. Applied Surface Science, 2022, 593, 153449.	6.1	20
8	Structural regulation and polishing performance of dendritic mesoporous silica (D-mSiO2) supported with samarium-doped cerium oxide composites. Advanced Powder Technology, 2022, 33, 103595.	4.1	5
9	Copper-incorporated dendritic mesoporous silica nanospheres and enhanced chemical mechanical polishing (CMP) performance via Cu2+/H2O2 heterogeneous Fenton-like system. Applied Surface Science, 2022, 601, 154262.	6.1	12
10	Meso-silica/Erbium-doped ceria binary particles as functionalized abrasives for photochemical mechanical polishing (PCMP). Applied Surface Science, 2021, 550, 149353.	6.1	29
11	Polystyrene-supported dendritic mesoporous silica hybrid core/shell particles: controlled synthesis and their pore size-dependent polishing behavior. Journal of Materials Science, 2020, 55, 577-590.	3.7	9
12	Composite particles with dendritic mesoporous-silica cores and nano-sized CeO2 shells and their application to abrasives in chemical mechanical polishing. Materials Chemistry and Physics, 2020, 240, 122279.	4.0	11
13	Development of mesoporous SiO2/CeO2 core/shell nanoparticles with tunable structures for non-damage and efficient polishing. Ceramics International, 2020, 46, 4670-4678.	4.8	18
14	Fabrication, characterization, and CMP performance of dendritic mesoporous-silica composite particles with tunable pore sizes. Journal of Alloys and Compounds, 2019, 770, 335-344.	5.5	9
15	Preparation, characterization, and application of dendritic silica-supported samarium-doped ceria nanoparticles in ultra-precision polishing for silica films. Journal of Nanoparticle Research, 2019, 21, 1.	1.9	9
16	Preparation of three-dimensional dendritic-like mesoporous silica particles and their pore size-dependent polishing behavior and mechanism. Journal of Porous Materials, 2019, 26, 1869-1877.	2.6	9
17	Core/shell structured PS/mSiO2 hybrid particles: Controlled preparation, mechanical property, and their size-dependent CMP performance. Journal of Alloys and Compounds, 2019, 779, 511-520.	5.5	17
18	Ceria coated hexagonal mesoporous silica coreâ€"shell composite particle abrasives for improved chemicalâ€"mechanical planarization performance. Journal of Porous Materials, 2019, 26, 1005-1015.	2.6	5

#	Article	IF	Citations
19	Solid-silica core/mesoporous-silica shell composite abrasives: synthesis, characterization, and the effect of mesoporous shell structures on CMP. Journal of Materials Science: Materials in Electronics, 2018, 29, 3817-3828.	2.2	6
20	Copper Chemical Mechanical Polishing Performances of Polystyrene/Ceria Hybrid Abrasives with a Core/Shell Structure. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1655-1663.	3.7	12
21	Core/shell structured sSiO2/mSiO2 composite particles: The effect of the core size on oxide chemical mechanical polishing. Advanced Powder Technology, 2018, 29, 18-26.	4.1	10
22	Design of ceria grafted mesoporous silica composite particles for high-efficiency and damage-free oxide chemical mechanical polishing. Journal of Alloys and Compounds, 2018, 736, 276-288.	5.5	34
23	Dependency of structural change and polishing efficiency of meso-silica/ceria core/shell composite abrasives on calcination temperatures. Journal of Materials Science: Materials in Electronics, 2018, 29, 11466-11477.	2.2	9
24	Polystyrene coreâ€“silica shell composite particles: effect of mesoporous shell structures on oxide CMP and mechanical stability. RSC Advances, 2017, 7, 6548-6558.	3.6	14
25	Evaluation of the mechanical stability of coreâ€“shell structured polystyrene/mesoporous-silica (PS-mSiO2) composite particles. Journal of Porous Materials, 2017, 24, 1667-1671.	2.6	1
26	Engineering functionalized PS/mSiO2 composite particles with controlled meso-shell thickness for chemical mechanical planarization applications. Journal of Materials Science: Materials in Electronics, 2017, 28, 284-288.	2.2	7
27	Synthesis and Characterization of Hollow Mesoporous Silica Spheres Using Negative-Charged Polystyrene Particles as Templates. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 380-384.	3.7	10
28	Three-dimensional ordered TiO2 hollow spheres as scattering layer in dye-sensitized solar cells. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
29	Evaluation of oxide chemical mechanical polishing performance of polystyrene coated ceria hybrid abrasives. Journal of Materials Science: Materials in Electronics, 2016, 27, 2919-2925.	2.2	11
30	Silica abrasives containing solid cores and mesoporous shells: Synthesis, characterization and polishing behavior for SiO2 film. Journal of Alloys and Compounds, 2016, 663, 60-67.	5.5	16
31	Monodispersed mesoporous silica (mSiO2) spheres as abrasives for improved chemical mechanical planarization performance. Journal of Materials Science, 2016, 51, 5811-5822.	3.7	30
32	Three-Dimensional Ordered CeO2 Hollow Spheres (3DOHSs-CeO2) from Polymethylmethacrylate/CeO2 Core/Shell Microsphere Colloidal Crystals. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 69-74.	3.7	2
33	Coreâ€“shell structured polystyrene coated silica composite abrasives with homogeneous shells: The effects of polishing pressure and particle size on oxide-CMP. Precision Engineering, 2016, 43, 71-77.	3.4	10
34	Core/shell composites with polystyrene cores and meso-silica shells as abrasives for improved chemical mechanical polishing behavior. Journal of Nanoparticle Research, 2015, 17, 1.	1.9	22
35	Polystyrene-Core Silica-Shell Composite Abrasives: The Influence of Core Size on Oxide Chemical Mechanical Planarization. Journal of Electronic Materials, 2015, 44, 2522-2528.	2.2	10
36	Atomic force microscopy indentation to determine mechanical property for polystyreneâ€“silica coreâ€“shell hybrid particles with controlled shell thickness. Thin Solid Films, 2015, 579, 57-63.	1.8	35

#	Article	IF	Citations
37	Facile Fabrication and Characterization of Three-Dimensional Ordered Films of TiO2 Hollow-Spheres. Journal of Inorganic and Organometallic Polymers and Materials, 2015, 25, 780-786.	3.7	4
38	Core/Shell Structured Solid-Silica/Mesoporous-Silica Microspheres as Novel Abrasives for Chemical Mechanical Polishing. Tribology Letters, 2015, 58, 1.	2.6	13
39	Polymethylmethacrylate (PMMA)/CeO 2 hybrid particles for enhanced chemical mechanical polishing performance. Tribology International, 2015, 82, 211-217.	5.9	62
40	Exploring the Elastic Behavior of Coreâ€“shell Organicâ€“Inorganic Spherical Particles by AFM Indentation Experiments. Journal of Inorganic and Organometallic Polymers and Materials, 2014, 24, 1070-1076.	3.7	6
41	Synergetic effect of organic cores and inorganic shells for core/shell structured composite abrasives for chemical mechanical planarization. Applied Surface Science, 2014, 314, 180-187.	6.1	25
42	Compressive elastic moduli and polishing performance of non-rigid core/shell structured PS/SiO2 composite abrasives evaluated by AFM. Applied Surface Science, 2014, 290, 433-439.	6.1	35
43	Fabrication of Three-Dimensionally Ordered Macroporous TiO2 Films with Enhanced Photovoltaic Conversion Efficiency. Journal of Inorganic and Organometallic Polymers and Materials, 2013, 23, 839-845.	3.7	2
44	Three-dimensional ordered macroporous carbon as counter electrodes in dye-sensitized solar cells. Thin Solid Films, 2013, 539, 122-126.	1.8	20
45	Synthesis of Monodispersed CeO₂ Nanoparticles Induced by Microwave Irradiation in Alcohol/Water Mixed Solvent and their Application in CMP. Advanced Materials Research, 2012, 479-481, 376-380.	0.3	2
46	Facile fabrication of porous hollow CeO2 microspheres using polystyrene spheres as templates. Journal of Porous Materials, 2012, 19, 289-294.	2.6	28
47	Youngâ€™s modulus of PS/CeO2 composite with core/shell structure microspheres measured using atomic force microscopy. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	26
48	Polishing behavior of PS/CeO2 hybrid microspheres with controlled shell thickness on silicon dioxide CMP. Applied Surface Science, 2011, 257, 8679-8685.	6.1	71
49	Preparation, characterization and oxide CMP performance of composite polystyrene-core ceria-shell abrasives. Microelectronic Engineering, 2011, 88, 200-205.	2.4	51
50	Synthesis, characterization of CeO2@SiO2 nanoparticles and their oxide CMP behavior. Microelectronic Engineering, 2010, 87, 1716-1720.	2.4	52