

Year 2016 Accepted/Published	
1	<i>“PEALD growth high-k ZrO₂ thin films on SiC compound semiconductor Accepted for publication in Semiconductor”</i> , Anil G. Khairnar, Vilas S. Patil, Khushabu S. Agrawal, Rahul S. Salunke and Ashok M. Mahajan , (Springer) (2016), IF-0.70.
2	<i>“HfO₂ gate dielectric on Ge(111) with ultrathin nitride interfacial layer formed by rapid thermal NH₃ treatment”</i> , Khushabu S. Agrawal, Vilas S. Patil, Anil G. Khairnar and Ashok M. Mahajan Applied Surface Science, 364, 747–751, (2016), IF- 2.79.
3	<i>“Synthesis and characterization of silica aerogel thin films”</i> , Anil Gaikwad, Yogesh Mhaisagar and Ashok Mahajan Invertis Journal of Science & Technology, 9(1), 54-61 (2016).
4	<i>“Observation of low turn-on field emission from nanocomposites of GO/TiO₂ and RGO/TiO₂”</i> Girish P. Patil, Vivekanand S. Bagal, Chetan R. Mahajan, Vijay R. Chaudhari, Sachin R. Suryawanshi, Mahendra A. More, Padmakar G. Chavan , Vacuum 123 (2016) 167-174
5	<i>“Simple way to deposit CdO nanowires for field emission application”</i> Vivekanand S. Bagal, Girish P. Patil, Prashant Baviskar, Sachin R. Suryawanshi, Mahendra A. More, Padmakar G. Chavan , Accepted J. Nano. Optoele. (2016)
6	<i>“VLS assisted growth of CdTe nanowires and their field emission properties”</i> Vivekanand S. Bagal, Girish P. Patil, Prashant Baviskar, Sachin R. Suryawanshi, Mahendra A. More, Padmakar G. Chavan , Accepted Micro Nano Lett. (2016)
7	<i>“High current density and low turn-on field from aligned Cd(OH)₂ Nanosheets”</i> Vivekanand S. Bagal, Girish P. Patil, Prashant Baviskar, Sachin R. Suryawanshi, Mahendra A. More, Padmakar G. Chavan , Accepted Chem. Phys. Lett. (2016)
8	<i>“CdS surface encapsulated ZnO nanorods: Synthesis to solar cell application”</i> , P R Nikam , P K Baviskar , J V Sali, K V Gurav, J H Kim & B R Sankapal, Journal of Alloys & Compounds, 689 (2016) 394-400
9	<i>“Aligned 2D CuSCN nanosheets: a high performance field emitter”</i> , G P Patil, P K Baviskar , V S Bagal, R D Ladhe, A B Deore, M A More, B R Sankapal & P G Chavan, RSC Advances, 6 (2016) 71958-71962
10	<i>“Nanonecklace of CdO through simple solution chemistry, N B Sonawane”</i> , P K Baviskar , R R Ahire, V H Ojha & B R Sankapal, Materials Science in Semiconductor Processing, 49 (2016) 81-83
11	<i>“Structural and Electrical Properties of Ultra-Thin High-k ZrO₂ Film on Nitride Passivated Ge (100) Prepared by PEALD”</i> Vilas S. Patil, Khushabu S. Agrawal, Anil G. Khairnar, Brian J. Thibeault and Ashok M. Mahajan accepted to Materials Science in Semiconductor Processing (Elsevier) (2016) IF - 2.26.
12	<i>“Influence of solvent variation on Tween-80 porogen based low-k thin films”</i> Namrata B. Pawar , Yogesh S. Mhaisagar , Anil S. Gaikwad and Ashok M. Mahajan accepted to Silicon (Springer) (2016) IF – 1.06.
13	<i>“PEALD growth high-k ZrO₂ thin films on SiC compound semiconductor”</i> Anil G. Khairnar, Vilas S. Patil, Khushabu S. Agrawal, Rahul S. Salunke and Ashok M. Mahajan , accepted for publication in Semiconductor (Springer) (2016), IF-0.70.

14	<i>"Influence of HF acid catalyst concentration on properties of aerogel low-k thin films"</i> , Anil S. Gaikwad, Swati A. Gupta and Ashok M. Mahajan , Materials Research Express (IOP) 3, 086403 (2016) IF – 0.98 .
15	<i>"Enhancement in mechanical properties of silica low-k thin films by using wet chemical technique"</i> , Yogesh S. Mhaisagar, Anil S. Gaikwad, Anil G. Khairnar and Ashok M. Mahajan Indian Journal of Pure & Applied Physics, 54, 439-442, (2016) IF – 0.7 .
16	<i>"Synthesis and characterization of silica aerogel thin films"</i> , Anil Gaikwad, Yogesh Mhaisagar and Ashok Mahajan Invertis Journal of Science & Technology, 9(1), 54-61 (2016).
17	<i>"HfO₂ gate dielectric on Ge(111) with ultrathin nitride interfacial layer formed by rapid thermal NH₃ treatment"</i> , Khushabu S. Agrawal, Vilas S. Patil, Anil G. Khairnar and Ashok M. Mahajan Applied Surface Science, 364, 747–751, (2016), IF- 3.1 .
18	<i>"Fabrication of ALD-ZrO₂/n-Ge MOS capacitors with Pt/Ti bilayer metal electrodes for advanced CMOS devices"</i> , A. M. Mahajan, Anil G. Khairnar, Brian J. Thibeault, Silicon, 8 (3), 345-350 (2016) IF – 1.06 .
19	<i>"Straightening of Chemically Deposited CdS Nanowires through Annealing towards Improved PV Device Performance"</i> , S Majumder, P K Baviskar & B R Sankapal, Ceramics International, 42 (2016) 6682-6691
20	<i>"Basic idea, advance approach": Efficiency boost by sensitization of blended dye on chemically deposited ZnO films"</i> , P K Baviskar , D P Dubal, S Majumder, A Ennaoui & B R Sankapal, Journal of Photochemistry and Photobiology A: Chemistry, 318 (2016) 135-141
21	<i>"Synthesis of D–D–A-type small organic molecules with an enlarged linker system towards organic solar cells and the effect of co-adsorbents on cell performance"</i> , P P Kumavat, P K Baviskar , B R Sankapal & D S Dalal, New Journal of Chemistry, 40 (2016) 634-640
22	<i>"Interfacial and electrical properties of Al₂O₃/HfO₂ bilayer deposited by atomic layer deposition on GeON passivated germanium surface"</i> Vilas S. Patil, Khushabu S. Agrawal, Anil G. Khairnar, Brian J. Thibeault and Ashok M. Mahajan Materials Research Bulletin 87, 208–213 (2016). IF.- 2.4
23	<i>"Vertically aligned TiO₂ nanotubes: Highly stable electrochemical supercapacitor"</i> , Shrikant S Raut, Girish P Patil, Padmakar G Chavan, Babasaheb R Sankapal, Journal of Electroanalytical Chemistry, 780, (2016), 197.
25	<i>"Observation of enhanced field emission properties of Au/TiO₂ nanocomposite"</i> , Padmakar G. Chavan Girish P. Patil, Vivekanand S. Bagal, Sachin R. Suryawanshi, Dattatray J. Late, Mahendra A. More, Appl. Phys. A: Mater Sci & Proce, 122, (2016), 1.
26	<i>"Low turn-on field and high field emission current density from Ag/TiO₂ nanocomposite"</i> , Padmakar G. Chavan Girish P. Patil, Amol B. Deore, Vivekanand S.

	Bagal, b, Dattatray J. Late, Mahendra A. More, Chemical Physics Letters, 657, (2016), 167.
27	<i>“Surface modification of aligned CdO nanosheets and their enhanced field emission properties”</i> , Vivekanand S Bagal, Girish P Patil, Amol B Deore, Sachin R Suryawanshi, Dattatray J Late, Mahendra A More, Padmakar G Chavan, RSC Advances, 6, (2016), 41261.