List of Publications:

- **Paper published in National and International journals:**

  1. **Characterization of inhibitive study of gel-grown hydroxyapatte crystals at physiological temperature.**
     
     **Bharat Parekh**, Mihir Joshi, Ashok Vaidya
     

  2. **Thermal, FT-IR, and dielectric studies of gel grown sodium oxalate single crystals.**
     
     **B.B. Parekh**, P.M. vyas, S. R. Vasant ans M. J. Joshi
     

  3. **Growth and Characterization of Gel Grown Calcium Pyrophosphate Tetrahydrate Crystals**
     
     **Bharat B. Parekh** and **Mihir J. Joshi**
     
     *Crystal Research and Technology, 42(2)* (2007) 127.

  4. **Growth and Characterization of 4-(2-hydroxyphenylamino)-pent-3-en-2-one Single Crystals**
     
     **Bharat B. Parekh**, Dushyant H. Purohit, P. Sagayaraj, H. S. Joshi and M.J. Joshi
     

  5. **Modification of gel technique for micro-crystals of bio-materials: In situ growth and dissolution studies**
     
     **Bharat B. Parekh**, M. J. Joshi, A. D. B. Vaidya
     
     *Current Science, 93(3)*, (2007), 373-378

  6. **Crystal Growth and Dissolution of Brushite Crystals by Different Concentration of Citric Acid Solutions**
     
     **Bharat Parekh** & **M.J. Joshi**
     

  7. **Thermal, FT-IR and SHG efficiency studies of L-arginine doped KDP crystals**
     
     K. D. Parikh, D. J. Dave, B. B. Parekh and M. J. Joshi
(8) **Inhibition of the Growth of Urinary Calcium Hydrogen Phosphate Dihydrate Crystals with Aqueous Extracts of *Tribulus terrestris* and *Bergenia ligulata***.
Vimal S. Joshi, **Bharat B. Parekh** and Mihir J. Joshi, Ashok D. B. Vaidya, Urological Research, **33** (2005) 80.

(9) **The Inhibition of Growth of Urinary type Calcium Hydrogen Phosphate Dihydrate Crystals by Tartaric acid and Tamarind**
K.C. Joseph, **Bharat B. Parekh** and M.J. Joshi
Current Science, **85** (2005) 1232.

(10) **Herbal Extracts of *Tribulus terrestris* and *Bergenia ligulata* Inhibit Growth of Calcium Oxalate Monohydrate Crystals in vitro**
V.S. Joshi, **B. B. Parekh**, M. J. Joshi and A.B. Vaidya

(11) **Analysis of N-H…O and O-H…O Hydrogen bonding in 4-(2-hydroxyphenylamino)-pent-3-en-2-one**
Rajnikant, Dinesh, Kamni, Purohit D.H., Joshi H.S., **Parekh Bharat**, Joshi M. J. and Kanwal Priyanka

(12) **Dielectric Studies of Gel Grown Zinc Tartrate Crystals**
R.M. Dabhi, **Bharat B. Parekh** and M.J. Joshi
Indian J. of Physics, **79**(5) (2005) 503.

(13) **Growth and Characterization of Gel Grown Pure and Mixed Iron-Manganese Levo-Tartrate Crystals**
S. J. Joshi, **B. B. Parekh**, K D. Vohra and M. J. Joshi

(14) **Investigation of Various Growth Parameters, FTIR and Thermal Studies of Gel Grown Pure and Mixed Levo-tartrates of Calcium and Strontium**
Ketan D. Parikh, **Bharat B. Parekh**, Dipak Dave and Mihir J. Joshi
Indian Journal Physics, **80** (7) (2006) 719-726.

(15) **Dielectric study of Cu$^{2+}$ doped calcium tartrate tetrahydrate crystals**
Papers Presented at National and International Conferences/ Seminar and Workshops:

(1) Inhibition and Dissolution of CHPD Crystals by Citric Acid Solutions
B.B. Parekh, V.S. Joshi, K.C. Joseph and M.J. Joshi

(2) Thermal Study of Mixed iron (II) Cobalt Tartrate Crystals
Sherly Joseph, Bharat Parekh, and M.J. Joshi

(3) Effect of Tartaric Acid and Tamarind Solution on the Growth of CHPD Crystals
B.B. Parekh, K.C. Joseph, V.S. Joshi and M.J. Joshi
XXXIII National Seminar on Crystallography, National Chemical Laboratory, Pune, during 8-10 January 2004.

(4) X-Ray Diffraction Study of Pure and Mixed Iron-Manganese Levo Tartrate Crystals
S.J. Joshi, Sailesh Suthar, Bharat B. Parekh and M.J. Joshi
XXXIII National Seminar on Crystallography, National Chemical Laboratory, Pune, during 8-10 January 2004.

(5) Mössbauer Spectroscopic and Magnetic Studies of Gel Grown Iron-Cobalt Mixed Tartrate Crystals
Sherly Joseph, Bharat B. Parekh, R. M. Dabhi, Sudhir Joshi, H.H. Joshi and M.J. Joshi

(6) Kidney Stones: A Brief Overview with Physics Perspective.
Bharat Parekh
(2nd Prize for Best Research Paper presentation award)
(7) *In Vitro* Growth of CHPD Urinary Crystals in the Presence of Healthy Adult Urine and Tartaric Acid.
14th International Conference on Crystal Growth (ICCG-14), Grenoble, France, during 9th - 13th August.

(8) The Herbal Extracts of *Tribulus terrestris* and *Bergenia ligulata* Inhibit Growth of Calcium Oxalate Monohydrate Crystals *in vitro*
V.S. Joshi, B.B. Parekh, M.J. Joshi and A.B. Vaidya
14th International Conference on Crystal Growth (ICCG-14), Grenoble, France, during 9th - 13th August.

(9) Thermal, Kinetic, Thermodynamic and SEM Studies of Gel Grown Calcium Oxalate Monohydrate Single Crystals
Vimal S. Joshi, Bharat B. Parekh, Dipak Dave and Mihir J. Joshi
International Conference on Solvo Thermal Reaction-6, (ICSTR-6), Mysore, 24-27 August '04.

(10) The Effect of Unripe Mango Juice on the Growth of Brushite Crystals
K.C. Joseph, Bharat B. Parekh, Dipak J. Dave and Mihir J. Joshi
International Conference on Solvo Thermal Reaction-6, (ICSTR-6), Mysore, 24-27 August '04.

(11) Growth, Inhibition and Characterization of Hydroxy Apatite Crystals
(Best Research Paper presentation award)
Bharat B. Parekh, Dipak Dave, Vimal S. Joshi, Ashwin Raut, Sudha Sunder, Nancy Pandita, and Mihir J. Joshi
92nd Indian Science Congress, Ahmedabad during 3-7, January 2005


(13) Dielectric Study of Copper Doped Calcium Tartrate Tetrahydrated Crystals
S.R. Suthar, S.J. Joshi, **B.B. Parekh** and M.J. Joshi
National Conference on Condensed Matter and Material Physics-06, M.S. Univ.
Baroda, during 19-21 January, 2006,

(14) **Growth and Characterization of L-histidine Doped KDP Crystals**
    **Bharat B. Parekh**, Dipak J. Dave, Ketan D. Parikh and Mihir J. Joshi
    One Day National Seminar on Recent Advances in Condensed Matter and Space
    Physics, Saurashtra University, Rajkot, on 21\textsuperscript{st} March 2006.

(15) **Measurement of Induction Period Nucleation Kinetics of the L-histidine
    Doped KDP Crystals**
    Dipak J. Dave, **Bharat B. Parekh**, Ketan D. Parikh and Mihir J. Joshi
    One Day National Seminar on Recent Advances in Condensed Matter and Space
    Physics, Saurashtra University, Rajkot, on 21\textsuperscript{st} March 2006.

(16) **Thermal Study of Gel Grown Iron- Manganese- Nickel Mixed Tartrate
    Crystals**
    Sudhir J. Joshi, **Bharat B. Parekh** and Mihir J. Joshi
    One Day National Seminar on Recent Advances in Condensed Matter and Space
    Physics, Saurashtra University, Rajkot, on 21\textsuperscript{st} March 2006.

(17) **Thermal Studies of L- Arginine Doped KDP Crystals**
    Ketan D. Parikh, **Bharat B. Parekh**, Deepak J. Dave and M.J. Joshi
    One Day National Seminar on Recent Advances in Condensed Matter and Space
    Physics, Saurashtra University, Rajkot, on 21\textsuperscript{st} March 2006.

(18) **Growth and Characterization of Sodium Oxalate Crystals**
    **Bharat B. Parekh**, Poorvesh M. Vyas, Kashmira Tank and M.J. Joshi
    11\textsuperscript{th} National Seminar on Crystal Growth (NSCG-11), Center for crystal growth,
    SSN college of Engineering, SSN Nagar, during 7-9 December 2006.

(19) **Growth of Cholesterol Crystals**
    Poorvesh M. Vyas, **Bharat B. Parekh** and M.J. Joshi
    XXI Gujarat Science Congress, Hemchandracharya North Gujarat University,
    Patan, 11\textsuperscript{th} March 2007

(20) **Dielectric Study of Mixed Crystals of Mn-Fe-Ni Tartrate**
Kashmira P. Tank, S.J.Joshi, Bharat B. Parekh, Dhaval D. Khunti & M. J. Joshi
XXI Gujarat Science Congress, Hemchandracharya North Gujarat University,
Patan, 11th March, 2007

(21) Growth and Characterization of Gel grown Calcium Pyrophosphate Crystals
Bharat B. Parekh and M.J. Joshi

(2nd Prize for Best Research Paper presentation award)
One Day National Seminar on Recent Trends in Materials Science, Department of
Physics, Saurashtra University, Rajkot, on 25th March 2007.

(22) Dielectric Study of Mixed Crystals of Mn-Fe-Co Tartrate
Kashmira P. Tank, Sudhir J. Joshi, Bharat B. Parekh, C. K. Chauhan and M. J.
Joshi
One Day National Seminar on Recent Trends in Materials Science, Department of
Physics, Saurashtra University, Rajkot, on 25th March 2007.

(23) Dielectric Study of Mn$^{++}$ doped ADP Crystals
Poorvesh M. Vyas, Purvesh Kurani, B. B. Parekh, K. D. Parikh and
M. J. Joshi
One Day National Seminar on Recent Trends in Materials Science, Department of
Physics, Saurashtra University, Rajkot, on 25th March 2007.

➢ Attended Workshops/Seminar/Training programme:

(1) International Workshop on Crystal Growth and Characterization of.
Technologically Important Materials
Crystal Growth Centre, Anna University campus, Chennai. February 24-28,
2004.

(2) International Workshop on nano-particles, Magnetic Ion. & Magnetic
Semiconductors Studied Mostly by Hyperfine Interactions.

(3) Testing of Electric Equipments as Per Standard
Institute of Diploma Studies, Nirma University of Science and Technology,
Ahmedabad, on 20th January 2007.
(4) **One day seminar on Microwave and its applications: Microwave 2007**
Department of Physics, University school of Science, Gujarat University
Ahmedabad, on 21st January 2007.

(5) Attended **Induction Training programme** for the one week duration of 31st December 2007 to 5th January 2008, organized by Institute of Diploma studies Nirma University of Science and Technology, Ahmedabad.