

## List of Publications:

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### ➤ Paper published in National and International journals:

- (1) **Characterization of inhibitive study of gel-grown hydroxyapatite crystals at physiological temperature.**

**Bharat Parekh**, Mihir Joshi, Ashok Vaidya

Journal of Crystal Growth, **310** (2008) 1749-1753. (Proceeding of ICCG-15)

- (2) **Thermal, FT-IR, and dielectric studies of gel grown sodium oxalate single crystals.**

**B.B. Parekh**, P.M. vyas, S. R. Vasant and M. J. Joshi

Bull. Mater Sci., **31(2)** (2008), 143-147.

- (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

Crystal Research and Technology, **42(4)** (2007) 407.

- (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,

Indian Journal of Pure and Applied Physics, **43** (2005) 675.

- (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

- Bulletin of Materials Science, **30** (2) (2007) 105-112
- (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  
Journal of Crystal Growth, **275**(1-2), (2005), e-1403, 1408, (Proceeding of ICCG-14, Grenoble, France, 9-13<sup>th</sup> August 2004)
- (11) **Analysis of N-H...O and O-H...O Hydrogen bonding in 4-(2-hydroxy-phenylamino)-pent-3-en-2-one**  
Rajnikant, Dinesh, Kamni, Purohit D.H., Joshi H.S., **Parekh Bharat**, Joshi M. J. and Kanwal Priyanka  
Heterocyclic Compound Vol.12 (2006) 129.
- (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  
Bulletin of Material Science 29(3) (2006) 307-312.
- (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<sup>2+</sup> doped calcium tartrate tetrahydrate crystals**

S. R. Suthar, S. J. Joshi, **B. B. Parekh** & M. J. Joshi

Indian Journal of Pure and Applied Physics **45** (2007) 48-51.

➤ **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  
Ninth National Seminar on Crystal Growth, Chennai, 24-26<sup>th</sup>, February 2003.
- (2) **Thermal Study of Mixed iron (II) Cobalt Tartrate Crystals**  
Sherly Joseph, **Bharat Parekh**, and M.J. Joshi  
Ninth National Seminar on Crystal Growth, Chennai, 24-26<sup>th</sup>, February 2003.
- (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  
International Workshop on nano-particles, Magnetic Ion. & Magnetic Semiconductors Studied Mostly by Hyperfine Interactions., M.S.Univ. Baroda, India, during February 10-14, 2004.
- (6) **Kidney Stones: A Brief Overview with Physics Perspective.**  
**Bharat Parekh**  
**(2<sup>nd</sup> Prize for Best Research Paper presentation award)**

XVIII Gujarat Science Congress, Saurashtra University, Rajkot, on 13<sup>th</sup> March  
2004

(7) ***In Vitro* Growth of CHPD Urinary Crystals in the Presence of Healthy Adult Urine and Tartaric Acid.**

K.C. Joseph, V.S. Joshi, **B.B. Parekh**, A.B. Vaidya and M.J. Joshi

14<sup>th</sup> International Conference on Crystal Growth (ICCG-14), Grenoble, France, during 9<sup>th</sup> -13<sup>th</sup> 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

14<sup>th</sup> International Conference on Crystal Growth (ICCG-14), Grenoble, France, during 9<sup>th</sup> -13<sup>th</sup> 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

92<sup>nd</sup> Indian Science Congress, Ahmedabad during 3-7, January 2005

(12) **Growth and Characterization of Pure and Mixed Iron-Manganese Levo-Tartrate Crystals.**

S.J. Joshi, K.D. Vohra, **B.B. Parekh**, V.S. Joshi and M.J. Joshi, ICMAT 2005, Singapore, 3-8 August, 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<sup>st</sup> 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<sup>st</sup> 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<sup>st</sup> 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<sup>st</sup> March 2006.

**(18) Growth and Characterization of Sodium Oxalate Crystals**

**Bharat B. Parekh**, Poorvesh M. Vyas, Kashmira Tank and M.J. Joshi

11<sup>th</sup> 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<sup>th</sup> 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, 11<sup>th</sup> March , 2007

**(21) Growth and Characterization of Gel grown Calcium Pyrophosphate Crystals**

**Bharat B. Parekh** and M.J. Joshi

**(2<sup>nd</sup> Prize for Best Research Paper presentation award)**

One Day National Seminar on Recent Trends in Materials Science, Department of  
Physics, Saurashtra University, Rajkot, on 25<sup>th</sup> 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 25<sup>th</sup> March 2007.

**(23) Dielectric Study of Mn<sup>++</sup> 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 25<sup>th</sup> March 2007.

➤ **Attended Work shops/ 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.**

M.S.Univ. Baroda, Vadodara, India. February 10-14, 2004.

**(3) Testing of Electric Equipments as Per Standard**

Institute of Diploma Studies, Nirma University of Science and Technology,  
Ahmedabd, on 20<sup>th</sup> January 2007.

- (4) **One day seminar on Microwave and its applications: Microwave 2007**  
Department of Physics, University school of Science, Gujarat University  
Ahmedabad, on 21<sup>st</sup> January 2007.
- (5) Attended **Induction Training programme** for the one week duration of 31<sup>st</sup>  
December 2007 to 5<sup>th</sup> January 2008, organized by Institute of Diploma studies  
Nirma University of Science and Technology, Ahmedabad.